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# STAMPER & TAYLOR RECEIVED

A PROFESSIONAL SERVICES CORPORATION

JAN 2 2 1991

RANDALL L. STAMPER<sup>a</sup> GARY J. TAYLOR TERESA A. SHERMAN CONNI L. STAMPER

STEVEN R. STOCKER
SCOTT R. SMITH
THOMAS M. CULBERTSON\*\*
MILDRED L. CHILDERS\*\*\*
ERIÇ M. STEVEN

SUITE 200 POST PLACE WEST 720 BOONE SPOKANE, WASHINGTON 99201 TELEFAX (509) 326-4891 TELEPHONE (509) 326-4800

January 17, 1991

SEATTLE OFFICE

FEARING SOLYMPIC BUILDING

FINITE WAY

FELEFAX (206) 624-7468

IDAHO OFFICE
POST OFFICE BOX 1852
HARBOR CENTER, SUITE 200
COEUR D'ALENE, IDAHO 83814-1852
(509) 326-4800

\* Also admitted to Idaho Bar.

" Also admitted to Elawaii and Colorado Bars.

\*\*\* Also admitted to Arizona Bar.

Environmental Protection Agency Region 10 Region 10 Hearing Clerk Post Office Box 360903M Pittsburg, Penn. 15251

Re: Deaconess Medical Center, No. 1090-04-14-2615

Dear Sir or Madam:

On December 28, 1990, the Regional Administrator of the Environmental Protection Agency, Region 10, signed a Consent Agreement and Consent Order for Payment of Civil Penalties in the above referenced matter. The Respondent therein was Deaconess Medical Center whose mailing address is Post Office Box 248, Spokane, Washington 99210-0248.

You will find enclosed a certified check, No. 78460, payable to the United States Treasurer in the amount of Twenty-Two Thousand One Hundred Dollars (\$22,100.00) representing payment in full of the penalty imposed against Deaconess Medical Center in Dockett No. 1090-04-14-2615.

Should you require anything further in this matter, please do not hesitate to contact me.

Very truly yours,

RANDALL L. STAMPER

MLC:mmp/04891 Enclosure

cc: Dave Martin Tom White Tom Zellers

Region 10 Hearing Clerk

1200 Sixth Avenue, 50-125 Seattle, Washington 98101

Hornes



DES \$ 8 1990

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Reply To

Attn. Of: SO-125

DEC 3 1 1990

Randy Stamper West 720 Boone Suite 200 Spokane, Washington 99201

HEARINGS CLERK EPA—REGION X

Re: In the Matter of: Deaconess Medical Center,

Docket No. 1090-04-14-2615 Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a conformed copy of the Consent Agreement and Consent Order for Payment of Civil Penalties (CACO) which was signed by the Regional Administrator on December 28, 1990. The original CACO has been filed with the Regional Hearing Clerk. Pursuant to the CACO, payment of the civil penalty of \$22,100 is due no later than January 30, 1990.

On behalf of the U.S. Environmental Protection Agency, thank you for your cooperation in reaching a satisfactory resolution in this matter.

Sincerely,

Bonnie L. Thie

Assistant Regional Counsel

Enclosure

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HEARINGS CLEP!X EPA—REGION X

BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

DEACONESS MEDICAL CENTER,
Spokane, Washington,

Respondent.

Docket No. 1090-04-14-2615

CONSENT AGREEMENT AND CONSENT ORDER FOR PAYMENT OF CIVIL PENALTIES

### I. PRELIMINARY STATEMENT

- 1. The United States Environmental Protection Agency ("EPA") initiated this proceeding for the assessment of a civil penalty pursuant to Section 16(a) of the Toxic Substances Control Act ("TSCA"), 15 U.S.C. § 2615(a), by issuing a Complaint against Respondent, Deaconess Medical Center on August 15, 1990.
- 2. The Complaint charged Respondent with 16 violations: counts one through five under the quarterly and annual inspection requirements, 40 C.F.R. § 761.30(a)(1)(ix);

CONSENT AGREEMENT AND CONSENT ORDER - Page 1 DOCKET NUMBER 1090-04-14-2615

count six under the marking requirements, 40 C.F.R. § 761.40(j)(1); counts seven through eleven under the recordkeeping requirements, 40 C.F.R. § 761.180(a); and counts 12 through 16 under the fire registration requirement, 40 C.F.R. § 761.30(a)(1)(vi). The Complaint sought a penalty of FIFTY-TWO THOUSAND FIVE HUNDRED DOLLARS (§52,500).

3. As a result of information exchanged during settlement negotiations, EPA and Respondent agreed to resolve this matter by executing this Consent Agreement and Consent Order.

#### II. CONSENT AGREEMENT

- 4. Respondent admits the jurisdictional allegations contained in the Complaint.
- 5. Respondent neither admits nor denies the factual allegations contained in the Complaint.
- 6. The parties agree that on March 5, 1990, an EPA inspection was performed at Respondent's facility located at Deaconess Medical Center, West 800 Fifth Avenue, Spokane, Washington.
- 7. Respondent has been cooperative and took prompt action to respond to the Complaint and settle this matter voluntarily. Respondent disposed of five PCB transformers, incurring disposal costs exceeding FORTY-FOUR THOUSAND TWO HUNDRED DOLLARS (\$44,200). Respondent provided an affidavit documenting that the unlabeled door, which was the basis for the CONSENT AGREEMENT AND CONSENT ORDER Page 2 DOCKET NUMBER 1090-04-14-2615

marking violation, was sealed with a bolted metal plate and cement, and, therefore, was not functional as a door. Therefore, EPA hereby dismisses Violation Six for marking which reduces the penalty by FIVE HUNDRED DOLLARS (\$500). Further, in conformance with EPA's Polychlorinated Biphenyls (PCB) Penalty Policy, dated April 9, 1990, EPA agrees to reduce the penalty proposed in the Complaint. The proposed penalty is reduced by 15 percent for cooperativeness and another 50 percent (of the reduced amount) for early disposal of the PCB transformers, leaving a penalty of TWENTY-TWO THOUSAND ONE HUNDRED DOLLARS (\$22,100).

- 8. Respondent waives its right to request an adjudicatory hearing on any issue addressed in this Consent Agreement and Consent Order.
- 9. Respondent agrees not to claim or attempt to claim a federal income tax deduction or credit covering all or any part of the civil penalty paid to the United States Treasurer.
- 10. Respondent and EPA agree to the issuance of the Consent Order below, and Respondent consents to the assessment of the civil penalty specified therein.

#### III. CONSENT ORDER

IT IS HEREBY ORDERED and ADJUDGED as follows:

11. For the reasons set forth above, Respondent is hereby assessed a penalty in the amount of TWENTY-TWO THOUSAND ONE HUNDRED DOLLARS (\$22,100).

CONSENT AGREEMENT AND CONSENT ORDER - Page 3
DOCKET NUMBER 1090-04-14-2615

12. Respondent shall pay the penalty amount in full no later than 30 days from the entry date of this Consent Order by mailing a certified check or money order, payable to the United States Treasurer, to:

U.S. Environmental Protection Agency, Region 10 (Region 10 Hearing Clerk)
P.O. Box 360903M
Pittsburgh, Pennsylvania 15251

A transmittal letter, giving Respondent's name, complete address, and this case docket number must accompany each payment. A copy of the check and of the transmittal letter shall be delivered or mailed to the Regional Hearing Clerk at the following address:

U.S. Environmental Protection Agency Region 10 Hearing Clerk 1200 Sixth Avenue, SO-125 Seattle, Washington 98101

- when due, any unpaid amount may be liquidated and made certain by motion and notice filed with the court to which this Consent Order is submitted for judgment and collection. Such motion and notice may be served on the Respondent or its current legal representative herein and shall be effective if so served. Under TSCA Section 16(a)(4), 15 U.S.C. § 2615(a)(4), the validity, amount, and appropriateness of the penalty is not subject to review in any judicial collection proceedings.
- 14. On any amount overdue under this Consent Agreement and Consent Order, interest shall accrue at the rate established

CONSENT AGREEMENT AND CONSENT ORDER - Page 4
DOCKET NUMBER 1090-04-14-2615

by the Secretary of the Treasury pursuant to 31 U.S.C. § 3717. Interest will begin to accrue from the date the payment was due. 2 Each party shall bear its own costs, fees, and 3 15. disbursements in this action. 4 This document is a "consent order" as that term is 5 16. used in the PCB Penalty Policy. In calculating penalties for any 6 7 future PCB violation, this consent order demonstrates a "history of prior such violations" under Section 16 of TSCA, 5 U.S.C. 8 9 § 2615. DATED this 28 th day of December 10 11 12 DANA A. RASMUSSEN Regional Administrator 13 14 Stipulated, Agreed, and Approved for Entry, 15 Waiving Notice: DEACONESS MEDICAL CENTER, Spokane, Washington 16 Dated: 17 (signature) 18 Thomas M White 19 (print or type name and title) 20 U.S. ENVIRONMENTAL PROTECTION 21 AGENCY 22 Dated: 12-24-90 23 Bonnie L. Thie 24 Assistant Regional Counsel 25 CONSENT AGREEMENT AND CONSENT ORDER - Page 5 26 DOCKET NUMBER 1090-04-14-2615

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NOV. 2 1 1990

SUBSTANCES BRANCH

**EPA REGION 10** 

NOV 2 1 1990

Reply To Attn. Of: SO-125

**HEARINGS CLERK** EPA-REGION X

Randy Stamper West 720 Boone Suite 200 Spokane, Washington 99201

Re: In the Matter of: Deaconess Medical Center,

Docket No. 1090-04-14-2615 Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. deadline for filing the Answer is December 21, 1990.

In addition, also enclosed is a proposed Consent Agreement and Consent Order. If the proposed Order is acceptable, then please sign the Order and return the original to me within 10 days of the date of this letter. A conformed copy will be returned to you after the Regional Administrator signs the Order.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Thank you for your cooperation in resolving this matter.

Sincerely,

Bonnie L. Thie

Assistant Regional Counsel

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5	HEARINGS CLERK EPA—REGION X
6	EPA-NL
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8	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
9	BEFORE THE REGIONAL ADMINISTRATOR Region 10
10	Seattle, Washington
11	IN THE MATTER OF:
12	DEACONESS MEDICAL CENTER, ) Docket No. 1090-04-14-2615
13	}
14	Respondent. ) MOTION, STIPULATION, AND ORDER ) FOR EXTENSION OF TIME TO
15	
16	
17	MOTION AND STIPULATION
18	The Parties in the above-entitled matter jointly request
19	and stipulate that the time for Respondent to file an answer be
20	extended in order to allow the Parties sufficient time to attempt
21	to resolve the matter.
22	
23	
24	Dated: 11-21-90 FOR RESPONDENT 10 / 10
25	per telephone call
26	
27	Dated: 11-21- 90 FOR EPA
28	MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME - PAGE 1

#### <u>ORDER</u>

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 21st day of December, 1990.

Dated: 10V-21)/990

DANA A. RASMUSSEN REGIONAL ADMINISTRATOR

By Direction

Hearing Clerk, EPA Region 10

Hoyas



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Reply To Attn. Of: SO-125

OCT 2 2 1990

Randy Stamper West 720 Boone Suite 200 Spokane, Washington 99201

HEARINGS CLERK EPA—REGION X

Re: In the Matter of: Deaconess Medical Center,

Docket No. 1090-04-14-2615 Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. The new deadline for filing the Answer is November 23, 1990.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Sincerely,

Bonnie L. Thie

Assistant Regional Counsel

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> PESTICIDES & TOXIC SUBSTANCES BRANCH EPA REGION 10

1 RECEIVED 2 3 OCT 2 2 1990 4 HEARINGS CLERK 5 EPA-REGION X 6 7 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 8 BEFORE THE REGIONAL ADMINISTRATOR Region 10 9 Seattle, Washington 10 IN THE MATTER OF: 11 Docket No. 1090-04-14-2615 DEACONESS MEDICAL CENTER, 12 13 MOTION, STIPULATION, AND ORDER Respondent. FOR EXTENSION OF TIME TO 14 FILE ANSWER 15 16 MOTION AND STIPULATION 17 The Parties in the above-entitled matter jointly request 18 and stipulate that the time for Respondent to file an answer be 19 extended in order to allow the Parties sufficient time to attempt 20 to resolve the matter. 21

Dated: 10-22-90

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Dated: 10-22-90

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MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME - PAGE 1

### ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 23rd day of November, 1990.

Dated Scholen 22/1990

GERALD A. EMISON ACTING REGIONAL ADMINISTRATOR

By Direction
Hearing Clerk, EPA Region 10

MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME - PAGE 2

LAW OFFICES OF

# STAMPER & TAYLOR

A PROFESSIONAL SERVICES CORPORATION

UCI 16 1990

PECHODES A TOXIC SUBSTANCES BRANCH EPA REGION 10

RANDALL L. STAMPER\*
GARY J. TAYLOR
TERESA A. SHERMAN
CONNI L. STAMPER

STEVEN R. STOCKER SCOTT R. SMITH

"Also admitted to Idaho Bar.

SUITE 200 POST PLACE WEST 720 BOONE SPOKANE, WASHINGTON 99201 TELEFAX (509) 326-4891 TELEPHONE (509) 326-4800

October 9, 1990

SEATTLE OFFICE
SUITE 305 OLYMPIC BUILDING
101 YESLER WAY
SEATTLE, WASHINGTON 98104
TELEFAX (206) 624-7471
TELEPHONE (206) 624-7468

IDAHO OFFICE
POST OFFICE BOX 1852
HARBOR CENTER, SUITE 200
COEUR D'ALENE, IDAHO 83814-1852
(509) 326-4800

Ms. Bonnie Thie Assistant Regional Counsel U.S. Environmental Protection Agency 1200 Sixth Avenue, 50-125 Seattle, Washington 98101

Re: EPA Settlement

December

OFFICE OF REGIONAL COUNSEL EPA - REGION X

Dear Bonnie:

Enclosed please find the affidavit from Ken Bayne, reflecting the fact that the door in question was totally inaccessible for at least the last ten years since it had been bolted completely shut and could not be opened in any manner. Also enclosed please find correspondence from Ken Bayne reflecting that each of the five transformers had approximately twenty years of service left at the time they were disposed of. Finally, I enclose a fax from Westinghouse Electric Corporation reflecting that the cost of transport and disposal for the five transformers amounted to \$56,700.

Your final question concerned the type of transformers involved in our discussions. The transformers were of the following type: low voltage, non-radial transformers.

If you have any additional questions, please contact me. It is my understanding that based upon this information, you will be providing me a stipulated settlement reflecting a fine of \$22,100. I look forward to reviewing your proposed stipulated settlement document.

Very truly yours,

RANDALL L. STAMPER

RLS:tk/5058p Enclosure

cc: Tom White

Dave Martin (w/enc.)

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY BEFORE THE REGIONAL ADMINISTRATOR Region 10

Seattle, Washington

IN THÉ MATTER OF: DEACONESS MEDICAL CENTER Washington,	R, Spokane, )	) ine, ) No. 1090-04-14-2615				
	Respondent.)	AFFID	AVIT	OF	KEN	BAYNE
STATE OF WASHINGTON :ss. County of Spokane	) )					•

- I, KEN BAYNE, being first duly sworn upon oath, depose and state that:
- 1. I have been working for DEACONESS MEDICAL CENTER since March 23, 1980 and for the past six years have been the Safety and Security Manager for DEACONESS MEDICAL CENTER.
- 2. From the time I first began working for DEACONESS MEDICAL CENTER in 1980, the Sherwood Vault Building, which contained two PCB transformers, had only one accessible entrance/exit from a doorway, located on the southside of the building, for purposes of entering or exiting the building.
- 3. As far as I know, at some time prior to 1980, the Sherwood Vault had two entrances, one accessible entrance from the south and one from the east side of the building.
- 4. On the east side of the Sherwood Vault Building there were a pair of 36" wide doors which met and closed in the middle of the doorway. At all times that I have worked at DEACONESS MEDICAL CENTER, there was a metal plate, approximately 8" x 8", bolted onto the outside face of both doors making it impossible

AFFIDAVIT OF KEN BAYNE: 1

LAW OFFICES OF

STAMPER & TAYLOR

A PROFESSIONAL SERVICES CORPORATION
SUITE 200 POON PLACE
WEST 720 BOONE
SPOKANE WASHINGTON 99201

(509) 316-4800

MLC:mmp/0178I AFFIDAVIT OF KEN BAYNE: 2

for the doors to be used for ingress into, or egress from, the Sherwood Vault Building.

- 5. The metal plate was bolted onto both doors on the side which faced outside into the courtyard area between the Sherwood Vault Building and Deaconess Hospital. The outside door handles had been removed and the metal plate was bolted over the doors covering the area where the handles had once been located.
- 6. On the other side of the double doors, inside the Sherwood Vault Building, there was a 12" high concrete containment basin, which would have made it almost impossible to gain access into or out of the building using this access, even if the substantial effort necessary to remove the bolts and plate was undertaken.
- 7. In the 10 1/2 years that I have worked at DEACONESS MEDICAL CENTER, the eastside double doors, which were bolted shut by the metal plate, were never intended to be used as a means of egress out of, or ingress into the Sherwood Vault Building.
- 8. The bolted double doors were never used and could not be used as a means of entrance into or exit from the Sherwood Vault at any time since 1980.

DATED this 8th day of Oxfoler, 1990.

By: KEN BAYNE

October SIGNED AND ATTESTED to before me this September, 1990.

s Per

day of

NOTARY PUBLIC in and for the State of Washington, residing at Spokane My appointment expires 11-17-50

STAMPER & TAYLOR

A PROFESSIONAL SERVICES CORPORATION

SUITE 200 POST PLACE WEST 720 BOONE SPOKANE, WASHINGTON 99201 (509) 326-4600



Westinghouse Electric Corporation Advanced Industrial Systems Divisions Engineering Services 1180 Andover Park West Seattle WA 96188 12081 675 2345

FAX (206) 575-2551

WIN 775-2551

# FAX TRANSMITTAL

DATE .	Sept. 2	1, 1790	TIME	3:30 01	<u>~1</u>
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# DEACONESS MEDICAL CENTER-SPOKANE

West 800 Fifth Avenue

Post Office Box 248 Spokane, WA 99210-0240

(509) 458-5800

October 8, 1990

Mr. Randy Stamper Suite 200 Post Place West 720 Boone Spokane, Washington 99201

Dear Randy

Enclosed is a copy of Westinghouse's transformer transport and disposal costs for the five PCB transformers that were removed from Deaconess Medical Center. Regarding the remaining estimated useful life of the transformers that were removed, I spoke to Mr. Jan Mettler, P.E., Operations Engineer at the Washington Water Power Company.

Mr. Mettler stated that transformers seldom ware out. Further, based on a minimum life expectancy of 50 years minus the roughly 30 years of trouble free use, we could have reasonably expected another 20 years of service from each of the transformers.

Please feel free to contact me of you have any questions.

Sincerely

Ken Bayne,

Safety & Security Manager

Enclosure



Region 10 1200 Sixth Avenue Seattle WA 98101 Alaska Idaho Oregon Washington

Hage?



SEP 1 9 1990

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Reply To

Attn. Of: SO-125

SEP 1 9 1990

Randy Stamper West 720 Boone

Suite 200

Spokane, Washington 99201

HEARINGS CLERK

SEP 2 0 1990

Re: In the Matter of: Deaconess Medical Center,

Docket No. 1090-04-14-2615 Toxic Substances Control Act

PELLING TOXIC SUBSTANCES BRANCH EPA REGION 10

Dear Mr. Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. The new deadline for filing the Answer is October 22, 1990.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Sincerely,

Bonnie L. Thie

Assistant Regional Counsel

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7	HEARINGS CLERK EP: - SION X
8 9	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY BEFORE THE REGIONAL ADMINISTRATOR Region 10 Seattle, Washington
10	
11	IN THE MATTER OF: )
12	DEACONESS MEDICAL CENTER, ) Docket No. 1090-04-14-2615
13	) Respondent. ) MOTION, STIPULATION, AND ORDER ) FOR EXTENSION OF TIME TO
14	) FILE ANSWER
15	
16	MOTION AND STIPULATION
17	The Parties in the above-entitled matter jointly request
18	and stipulate that the time for Respondent to file an answer be
19	extended in order to allow the Parties sufficient time to attempt
20	to resolve the matter.
21	
22	
23	Dated: 9-19-90 R. Stanger by Bri This
24	Dated: 9-19-90  R. Stanger by Br. This.  FOR RESPONDENT discussion on 9-18-90
25	
26	Dated: 9-19-90 Pare 72-8
27	FOR EPA
28	MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME - PAGE 1

#### ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 22nd day of October, 1990.

Dated: 19,1990

THOMAS P. DUNNE ACTING REGIONAL ADMINISTRATOR

By Direction

Hearing Clerk, EPA Region 10

Tuesday, September 18, 1990 Settlement Conference for Deaconess Medical Center 8th Floor Conference Room

THE FOLLOWING IS A SUMMARY OF THE SETTLEMENT DISCUSSION THAT OCCURRED.

#### ATTENDEES

Bonnie Thie, EPA Attorney Eileen Hayes, EPA Case Reviewer David R. Martin, Director, Risk Management, Deaconess Medical Center Randall Manfel, Attorney, Deaconess Medical Center

Eileen - Opening remarks/introductions

Randal- Presentation of chronology of events

Felt that most of what occured, occured because of an employee who has since retired. Though hospital had complied with the regulations.

Eileen - Went through violations as listed in complaint.

Also referred to July 2, 1990 letter from Ken Bayne & David Martin of Deaconess stating all annual reports were prepared in April of 1990 in response to my letter of inquiry.

Randal - Take issue with marking violation. The door in question had been sealed for approximately 10 years. Was not a point of entry. Point of entry was marked

Eileen - How was door sealed? Difference between sealed and locked.

Randal - Believe door was welded. Will call & find out before leaving today.

Eileen - If documentation can be provided to EPA concerning this claim (suggested signed affadavit) EPA will consider dismissing this violation.

Randal - Questions concerning penalty calculations.

Break (15 minutes approximately)

Eileen - Went through penalty calculations

Violations stand as cited with exception of marking violation - if affadavit can be provided.

Offer: Penalty assessed at \$52,000

15% Good Faith - \$7800 Assessed Penalty - \$44,200

Credit for early disposal - \$2.00 spent for every \$1.00 mitigated

50% of penalty in cash - \$22,100

Early disposal cost must be equal to or greater than twice the amount mitigated (\$22,100) or \$44,200 dollars spent for early disposal.

Randal - Can't accept offer today officially but will recommend acceptance. Asked Bonnie to draw up final order

Bonnie - Will extend time to prepare answer for 3 weeks and prepare final order.

END OF CONFERENCE

M. Cil Hayes 09/19/90

Deniones Settlement

Randell J. Hambel Attorney, Deac. Med. Center (509)326-4800

DAVID R. Marfin Director Risk Management EHS 509-459-4960

Bonnie Thie 28A-Office of Regil Counsel 206-442-1169

#### DMC V. EPA

# CHRONOLOGY OF EVENTS

- 8/22/83 Inspection of all 5 PCB Transformers by Transformer Consultants, S.D. Myers, Inc.
- 11/9/84 Invoice No. P084-K31 to check the Askarel (fluid containing PCB) in 5 PCB transformers and furnish report to DMC (to Transformers Consultants).
  - a. 11/19/84 Certificate of insurance issued.
  - b. Effective date: 04/03/84 4/3/85 Workman's Comp. policy for Transformer Consultants Division.
- 3. 11/14/84 Sales Order 5 Askarel checks inspection of 5 PCB Transformer valves by Transformer Consultants.
- 4. 01/05/85 Inspection of all 5 PCB Transformers by Transformers Consultants.
- 5. 02/05/85 Notation on sales order closed and no leaks.
- 6. 07/12/85 Memo re: Tour of electrical vaults work to be performed (Response to recommendations of general cleanup?)
- 7. 01/10/86 Inspection of all 5 PCB Transformers by Transformer Consultants.
- 8. 03/06/86 Letter to Spokane Fire Dept. registering PCB Transformers (regulations - 12/1/85) (Oral representations to fire personnel?)
- Approx. 05/87 Inspection of all 5 PCB Transformers by General Electric Company for purposes of estimating costs of retrofitting and disposal of PCB Transformers.
- 10. 06/02/87 G.E. Quotation No. 437A00012 re: retrofitting and disposal of all 5 PCB Transformers.
- 11. 05/13/88 Purchase Requisition removal of 3 PCB Transformers install 3 silicone transformers (vendor Westinghouse Electric Corp.).

-1-

- 12. 12/88 Annual Report three removed from service 12/1/88.
- 13. 12/01/88 Transformer 1 Chiller removed from service.
  - a. 12/08/89 Certificate of Disposal 452JE.
- 14. 12/01/88 Transformer 2 North Wing Vault removed from service.
  - a. 01/04/90 Certificate of Disposal 781HE.
- 15. 12/03/88 Transformer 3 South Wing Roof removed from service.
  - a. 07/19/89 Certificate of Disposal #775HE issued.
- 16. 1989 Annual Report.
- 17. 03/05/90 Inspection by EPA (Michael Hoyles).
- 18. 04/26/90 Letter from Ken Byane to Gil Haselberger of Toxic Substances Section.
- 19. 04/90 PCB label added to Sherwood vault (after inspection).
- 20. 4/90 All PCB Annual Report Summaries prepared in response to EPA request (background info. existed).
- 21. 7/11/90 Retrofitting and disposal of remaining 2 PCB transformers.
- 22. 8/12/90 EPA letter notification of violations.
- 23. 8/15/90 EPA complaint filed and served on DMC.
- 24. 8/23/90 Motion, Stipulation and Order for Extension of Time to File Answer.

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	HEARINGS CLERK EPA—REGION X
UNITED STATES ENVIRONMEN BEFORE THE REGIONA	L ADMINISTRATOR
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IN THE MATTER OF:	
DEACONESS MEDICAL CENTER,	Oocket No. 1090-04-14-2615
}	
) F	MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME TO FILE ANSWER
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MOTION AND ST	CIPULATION
The Parties in the above-e	entitled matter jointly request
and stipulate that the time for Resp	oondent to file an answer be
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	/:
to resorve the matter.	
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Dated: 8-23-90 R-S	tamper by B-Rue
FOR RE	SPONDENT per telephone call
	`
Dated: 8-23-50	~/h
FOR EP	'A
	BEFORE THE REGIONA Region Seattle, Wa  IN THE MATTER OF:  DEACONESS MEDICAL CENTER,  Respondent.  MOTION AND ST  The Parties in the above-e and stipulate that the time for Respected in order to allow the Partito resolve the matter.  Dated: 8-23-90  FOR RE

#### **ORDER**

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 28th day of September 28, 1990.

Dated: Marg. 23, 1990

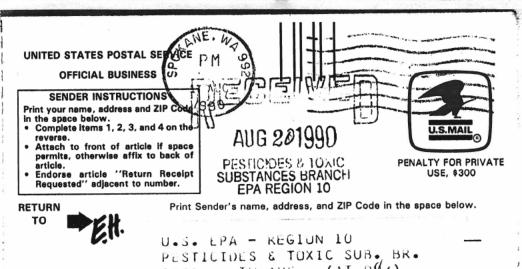
THOMAS P. DUNNE
ACTING REGIONAL ADMINISTRATOR

By Direction

Hearing Clerk, EPA Region 10

·*· <b>b</b> a)	
SENDER: Complete Items 1 and 2 when additional 3 and 4.  Put your address in the "RETURN TO" Space on the reverse from being returned to you. The return receipt fee will provid the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested.  Show to whom delivered, date, and addressee's a (Extra charge)	e side. Failure to do this will prevent this card e you the name of the person delivered to and es are available. Consult postmaster for fees
3. Article Addressed to:  Mr. Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, WA 99210-0248	4. Article Number  2-338 605 939  Type of Service:  Registered Contified Con
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent	5-
7. Date of Delivery AUG 1 7 1990	ESEMENTON
	DOMESTIC DETIION DECEM

PS Form 3811, Apr. 1989

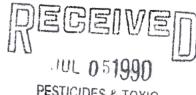


PESTICIDES & TOXIC SUB. BR.
1200 - 6TH AVE. (AT-0(3)
SEATTLE, WA 98101



# MEDICAL CENTER · SPOKANE

July 2, 1990



PESTICIDES & TOXIC SUBSTANCES BRANCH **EPA REGION 10** 

West 800 Fifth Avenue

Post Office Box 248 Spokane, WA 99210-0248

(509) 458-5800

M. Eileen Hayes Environmental Protection Agency 1200 Sixth Avenue M/S AT-083 Seattle, Washington 98101

Dear Ms. Hayes:

Thank you for your correspondence of June 18, 1990 concerning our letter dated April 26, 1990. After reviewing your request for information pertaining to our annual inspection records for 1984, and our in-house maintenance inspection records for period January through June 1987, we offer the following:

Items 1-5:

The PCB Transformers were periodically inspected by in-house maintenance personnel, during 1984 and the period between January and June 1987. However, we do not have documnentation supporting

these inspections.

Item 6:

All of the PCB Annual Reports were prepared in April of 1990.

If you need further clarification please contact me at (509)458-7360.

Sincerely,

Ken Bayne

Safety and Security Manager.

David Martin

Dir. Risk Management

and Martin

cc: Tom White







Reply To Attn Of: SO-125 AUG 15 1990

# CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248

Re: Toxic Substances Control Act Docket No. 1090-04-14-2615

Dear Mr. White:

Enclosed is an administrative complaint for the assessment of civil penalties that has been filed against Deaconess Medical Center by the Environmental Protection Agency. A copy of the penalty policy and the Consolidated Rules of Practice that apply to this complaint are also enclosed. Please read these documents carefully and respond within the time limit specified in the complaint.

The complaint alleges that Deaconess Medical Center violated the use, marking, and recordkeeping provisions of the PCB (polychlorinated biphenyl) Regulations issued under the Toxic Substances Control Act (TSCA). As explained in the complaint, unless you request and receive a written extension of time, you have 20 days to do one of the following:

- arrange a settlement conference;
- 2. file a written answer and request a hearing with an administrative law judge; or
- 3. pay the assessed penalty.

The specific procedures for each of the three options are explained in the complaint. Also, as explained in the complaint, if you fail to take one of the actions outlined above, a default order could be entered against you. After entry of an order of default, penalties can be assessed against you without further notice.

However, we are available to discuss with you the alleged violations and proposed penalties. Such discussions may result in settlement which would make the filing of a written answer unnecessary. Bonnie L. Thie, Assistant Regional Counsel, is the attorney handling this complaint for EPA. If you want to arrange for a settlement conference, request a time extension, or have other questions, you may call her at (206) 442-1037.

Sincerely,

forKenneth D. Feigner, Chief Pesticides and Toxic Substances Branch

**Enclosures** 

cc: Bill Danson, EPA Headquarters

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

DEACONESS MEDICAL CENTER,
Spokane, Washington,
Respondent.

DOCKET NO. 1090-04-14-2615

COMPLAINT

I.

### **JURISDICTION**

1. This is an administrative action instituted pursuant to Section 16(a) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2615(a), for the assessment of a civil penalty. The Complainant is Region 10, United States Environmental Protection Agency (EPA). Complainant has reason to believe that the above-named Respondent has violated federal regulations addressing the use and/or disposal of polychlorinated biphenyls (PCBs) (40 C.F.R. Part 761 promulgated under Section 6 of TSCA), and thereby has violated Section 15 of TSCA, 15 U.S.C. § 2614.

COMPLAINT - Page 1 of 14 DOCKET NO. 1090-04-14-2615

Form OBD-183

# FINDINGS AND VIOLATIONS

2. On March 5, 1990, an EPA inspection was performed at Deaconess Medical Center, West 800 Fifth Avenue, Spokane, Washington. The purpose of the inspection was to determine compliance with TSCA, 15 U.S.C. § 2601 et seq., and specifically the PCB regulations promulgated at 40 C.F.R. Part 761. The inspection disclosed the following violations:

## **VIOLATIONS ONE THROUGH THREE**

3. <u>REGULATION - QUARTERLY INSPECTIONS</u>: 40 C.F.R.

§ 761.30(a)(1)(ix) requires that a visual inspection of each PCB Transformer (as defined in the definition of "PCB Transformer" under § 761.3) in use or stored for reuse shall be performed at least once every 3 months. These inspections may take place any time during the 3-month periods:

January-March, April-June, July-September, and October-December as long as there is a minimum of 30 days between inspections. The visual inspection must include investigation for any leak of dielectric fluid on or around the transformer. The extent of the visual inspections will depend on the physical constraints of each transformer installation and should not require an electrical shutdown of the transformer being inspected.

40 C.F.R. § 761.30(a)(1)(xii) states that records of inspection and maintenance history shall be maintained at least 3 years after disposing

COMPLAINT - Page 2 of 14 DOCKET NO. 1090-04-14-2615 of a transformer and shall be made available for inspection, upon request by EPA. Such records shall contain the following information for each PCB Transformer:

- (A) Its location.
- (B) The date of each visual inspection and the date that a leak was discovered, if different from the inspection date.
- (C) The person performing the inspection.
- (D) The location of any leak(s).
- (E) An estimate of the amount of dielectric fluid released from any leak.
- (F) The date of any cleanup, containment, repair, or replacement.
- (G) A description of any cleanup, containment, or repair performed.
- (H) The results of any containment and daily inspection required for uncorrected active leaks.

40 C.F.R. § 761.30(a)(1)(xiii) states that a reduced visual inspection frequency of at least once every 12 months applies to PCB Transformers that utilize either of the following risk reduction measures.

(A) A PCB Transformer which has impervious, undrained, secondary containment capacity of at least 100 percent of the total dielectric fluid volume of all transformer so contained, or

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(B) A PCB Transformer which has been tested and found to contain

less than 60,000 ppm PCBs (after 3 months of in service use if

the transformer has been serviced for purposes of reducing the

PCB concentration).

These inspections may take place any time during the calendar year as long as there is a minimum of 180 days between inspections.

4. <u>VIOLATIONS ONE THROUGH THREE</u>: There is no record of annual inspections having been conducted during the calendar year 1984 on the following three PCB Transformers prior to their removal from service.

**VIOLATION ONE:** 

ITE, serial number 20982-A01, 2000

KVA, 315 gallons Askarel, formerly

located in the Chiller Building.

VIOLATION TWO:

ITE, serial number 20982-D01, 500

KVA, 218 gallons Askarel, formerly

located in the North Wing Vault.

**VIOLATION THREE:** 

ITE, serial number 20982-B01, 140

gallons Askarel, formerly located on

the South Wing roof.

5. <u>VIOLATIONS FOUR AND FIVE</u>: There is no record of annual inspections having been conducted during the calendar year 1984 on the two in-service PCB Transformers identified below.

<u>VIOLATION FOUR:</u>

General Electric, serial number

G854825, 225 KVA, 100 gallons

Pyranol, located in the Sherwood

Transformer Vault.

**VIOLATION FIVE:** 

ITE, serial number 20136-A01,

300 KVA, 117 gallons Askarel,

located in the Sherwood

Transformer Vault.

#### **VIOLATION SIX**

6. <u>REGULATION - MARKING</u>: 40 C.F.R. § 761.40(j)(1) requires that as of December 1, 1985, the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to a PCB Transformer must be marked with the required PCB label. In general, a 6 inch by 6 inch PCB label is required, although the label may be reduced in size proportionately to a minimum of 2 inches by 2 inches for equipment too small to accommodate the standard 6 inch by 6 inch label.

#### VIOLATIONS SEVEN THROUGH ELEVEN

- 8. REGULATION RECORDS & MONITORING: 40 C.F.R. § 761.180(a) states that, beginning July 2, 1978, each owner or operator of a facility using or storing at one time at least 45 kilograms (99.4 pounds) of PCBs contained in PCB Container(s), or one or more PCB Transformers, or 50 or more PCB Large High or Low Voltage Capacitors, shall develop and maintain records on the disposition of the PCBs and PCB Items. The records shall form the basis of an annual document prepared for each facility by July 1, covering the previous calendar year. The following information for each facility shall be included in the annual document:
  - The dates when PCBs and PCB Items are removed from service, are placed into storage for disposal, and are placed into transport for disposal. The quantities of the PCBs and PCB Items shall be indicated using the following breakdown:
    - i) Total weight in kilograms of any PCBs and PCB Items in PCB Containers including the identification of container contents such as liquids and capacitors;
    - ii) Total number of PCB Transformers and total weight in kilograms of any PCBs contained in the transformers; and

COMPLAINT - Page 6 of 14 DOCKET NO. 1090-04-14-2615 iii) Total number of PCB Large High or Low Voltage Capacitors.

- 2) For PCBs and PCB Items removed from service, the location of the initial disposal or storage facility and the name of the owner or operator of the facility.
- 3) Total quantities of PCBs and PCB Items remaining in service at the end of the calendar year, using the following breakdown:
  - i) Total weight in kilograms of any PCBs and PCB Items in PCB Containers, including the identification of container contents such as liquids and capacitors,
  - ii) Total number of PCB Transformers and total weight in kilograms of PCBs in the transformers, and
  - iii) Total number of PCB Large High or Low Voltage Capacitors.
- VIOLATIONS SEVEN THROUGH ELEVEN: There was no record of PCB Annual Documents having been prepared for the years 1984, 1985, 1986, 1987, and 1988.

10. <u>REGULATION - REGISTRATION</u>: 40 C.F.R. § 761.30(a)(1)(vi) states that as of December 1, 1985, all PCB Transformers (including PCB Transformers in storage for reuse) must be registered with fire response personnel with primary jurisdiction (that is, the fire department or fire brigade which would normally be called upon for the initial response to a fire involving the equipment), Information required to be provided to fire response personnel for each PCB Transformer includes:

- (A) The location of the PCB Transformer (the address of the building and the physical location of the PCB Transformer on the building site and, for an outdoor PCB Transformer, the location of the outdoor substation).
- (B) The principal constituent of the dielectric fluid in the transformer (e.g., PCBs, mineral oil, or silicone oil).
- (C) The name and telephone number of the person to contact in the event of a fire involving the equipment.
- 11. <u>VIOLATIONS TWELVE THROUGH SIXTEEN</u>: The PCB Transformers that are the subject of Violations One through Five were not registered with local fire response personnel prior to December 1, 1985.

COMPLAINT - Page 9 of 14 DOCKET NO. 1090-04-14-2615

#### PROPOSED CIVIL PENALTY

12. Section 16 of TSCA, 15 U.S.C. § 2615 authorize a civil penalty of up to \$25,000.00 per day for each violation of TSCA. Based upon the violations cited in this Complaint, the nature, circumstances, extent, and gravity of the violations alleged, Respondent's ability to pay, effect on the Respondent's ability to continue to do business, Respondent's lack of prior history of such violations, the degree of Respondent's culpability, and other such matters as justice may require, the Complainant proposes that Respondent be assessed the following penalty calculated in accordance with the Guidelines for Assessment of Civil Penalties Under Section 16 of TSCA; PCB Penalty Policy ("Penalty Policy"). A copy of the Penalty Policy accompanies this Complaint.

13. The nature, circumstances, and gravity of Respondent's failure to conduct quarterly inspections, as cited in Violations One through Five, are represented by Level Two on the matrix in the Penalty Policy. Violations Four and Five are combined because the PCB Transformers are located in the same room. The nature, circumstances, and gravity of Respondent's failure to mark the vault room door with the required PCB label, as cited in Violation Six, are represented by Level Five on the matrix. The nature, circumstances, and gravity of Respondent's failure to prepare Annual PCB Documents, as cited in Violations Seven through Eleven, are represented by Level Four on the matrix. The nature, circumstances, and gravity of Respondent's failure to

register the facility's PCB Transformers prior to December 1, 1985, as cited in Violations Twelve through Sixteen, are represented by Level Four on the matrix. The extent of Violation One, and Violations Seven through Sixteen are represented by "significant" on the matrix. The extent of the remaining violations is represented by "minor" on the matrix.

14. The proposed penalty reflects a presumption of Respondent's ability to pay the penalty and to continue in business. Respondent may submit appropriate documentation to rebut that presumption during settlement negotiations. Taking into account all the above factors, the penalty for Respondent Deaconess Medical Center, as prescribed by the matrix, is \$52,500, calculated as set forth below. Based on the lack of history of prior such violations by Respondent, on the degree of culpability of Respondent, and on other matters as justice may require, no further adjustment of the penalty is indicated at this time. If appropriate, further penalty adjustments may be made during settlement negotiations.

	Regulation	Requirement	Penalty Amount
1-5.	40 C.F.R. § 761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
6.	40 C.F.R. § 761.40(j)(1)	Marking	\$ 500
7-11.	40 C.F.R. § 761.180(a)	Recordkeeping	\$24,000
12-16.	40 C.F.R. § 761.30(a)(1)(vi)	Use (Fire Registration)	\$ 6,000
		TOTAL	\$52,500

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NOTICE OF OPPORTUNITY TO REQUEST A HEARING

15. The Consolidated Rules of Practice, 40 C.F.R. Part 22, govern these proceedings. A copy of the Consolidated Rules of Practice accompanies this Complaint. Under those rules, Respondent has the right to request a formal hearing to contest any material fact set forth in this Complaint or to contest the appropriateness of the proposed penalty.

16. To avoid being found in default, which constitutes an admission of all material facts alleged in the Complaint and a waiver of the right to a hearing, and which will effect the assessment of the above civil penalty without further proceedings, Respondent must file with the Regional Hearing Clerk a written Answer within twenty (20) days after service of this Complaint. Respondent's Answer must clearly and directly admit, deny, or explain each of the factual allegations contained in this Complaint with regard to which Respondent has any knowledge. Where Respondent has no knowledge of a particular fact and so states, the allegation is deemed denied. Failure to deny any material factual allegation constitutes an admission of the allegation. The Answer shall also state: (1) the circumstances or arguments which are alleged to constitute the grounds of defense; (2) the facts which Respondent intends to place at issue; and, (3) whether a hearing is requested. A hearing is deemed requested should Respondent contest any material fact upon which the Complaint is based or raise any affirmative defense, or contend that the amount of the penalty

proposed in the Complaint is inappropriate, or claim that Respondent is entitled to judgment as a matter of law. The Answer must be sent to:

> Regional Hearing Clerk, Region 10 Environmental Protection Agency 1200 Sixth Avenue, SO-125 Seattle, Washington 98101

17. A copy of the Answer and all other documents which Respondent shall file in this action must be furnished to Bonnie L. Thie, Assistant Regional Counsel, the attorney assigned to represent EPA in this matter, at:

> Office of Regional Counsel U.S. Environmental Protection Agency, Region 10 1200 Sixth Avenue, SO-125 Seattle, Washington 98101

> > ٧.

#### INFORMAL SETTLEMENT CONFERENCE

- 18. Whether or not a hearing is requested, Respondent may contact the above-named attorney to arrange for an informal settlement conference to discuss the facts of this case, the amount of the proposed penalty, or the possibility of settlement. An informal settlement conference does not, however, affect Respondent's obligation to file a timely written Answer to the Complaint.
- 19. EPA has the authority to modify the amount of the proposed penalty, where appropriate, to reflect any settlement reached with Respondent in an informal conference. The terms of such an agreement would

COMPLAINT - Page 12 of 14 DOCKET NO. 1090-04-14-2615

Form OBD-183

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be embodied in a Consent Agreement and Final Order. A Consent Agreement and Final Order entered into by and between EPA and Respondent would be binding as to all terms and conditions specified therein upon signature by both parties and by the EPA Administrative Law Judge, the Chief Judicial Officer, or the EPA Regional Administrator.

20. Respondent is advised that, after the Complaint is issued, the Consolidated Rules of Practice prohibit any <u>ex parte</u> (unilateral) discussion of the merits of any action with the EPA Regional Administrator, Chief Judicial Officer, Administrative Law Judge, or any person likely to advise these officials in the decision of this case.

VI.

#### **PAYMENT OF PENALTY**

21. Instead of requesting an informal settlement conference or filing an Answer requesting a hearing, Respondent may choose to pay the proposed penalty. In order to do this, Respondent must first establish contact with the EPA attorney named in paragraph 15 of this Complaint to arrange for the preparation of a Consent Agreement and Final Order. After the Consent Agreement and Final Order has been signed by both parties and by the Regional Administrator, Respondent's payment must be made by sending a cashier's check or certified check, payable to the Treasurer, United States of America, in the amount of the penalty assessed in this Complaint to the address identified below:

COMPLAINT - Page 13 of 14 DOCKET NO. 1090-04-14-2615

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2	Environmental Protection Agency, Region 10 (Regional Hearing Clerk)
3	P.O. Box 360903M Pittsburgh, Pennsylvania 15251
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5	with a copy of such check (and the transmittal letter, if any) sent to:
6	Regional Hearing Clerk
7	Office of Regional Counsel Environmental Protection Agency
8	1200 Sixth Avenue, SO-125 Seattle, Washington 98101
9	
10	ISSUED AT SEATTLE this 14th day of August, 1990.
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12	Olona II
13	KENNETH D. FEIGNER, Chief Pesticides and Toxic Substances Branch
14	Pesticides and Toxic Substances Branch
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Form OBD-183 12-8-76 DOJ

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COMPLAINT - Page 14 of 14 DOCKET NO. 1090-04-14-2615

CERTIFICATE OF SERVICE

I hereby certify that the original of the foregoing Complaint, Docket Number 1090-04-14-2615, has been filed with the Region 10 Hearing Clerk, and that a true and correct copy thereof (with accompanying copies of the Consolidated Rules of Practice and the Polychlorinated Biphenyl (PCB) Penalty Policy) was sent by Certified Mail, Return Recipt Requested, to:

> Mr. Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248

AUG 15 1990

DATE

Acting Secretary

Pesticides & Toxic Substances Branch

EPA Region 10

TITLE



Reply To Attn Of AT-083

FILE COPY

#### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248

JUN 18 1990

Dear Mr. White:

This concerns your April 26, 1990 letter which included documentation on the PCB Transformers cited in the Environmental Protection Agency's letter dated April 9, 1990. We have reviewed the documentation you submitted and request the following additional information:

- Copies of the annual inspection record for 1984 for the PCB
   Transformer identified as ITE, serial number 20982-A01 and copies of
   the in-house maintenance inspection record for the PCB Transformer
   identified above for the period between January and June 1987.
- Copies of the annual inspection record for 1984 for the PCB
   Transformer identified as ITE, serial number 20982-D01 and copies of
   the in-house maintenance inspection record for the PCB Transformer
   identified above for the period between January and June 1987.
- 3. Copies of the annual inspection record for 1984 for the PCB Transformer identified as ITE, serial number 20982-B01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
- 4. Copies of the annual inspection record for 1984 for the PCB Transformer identified as General Electric, serial number G854825 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
- 5. Copies of the annual inspection record for 1984 for the PCB 'Transformer identified as ITE, serial number 20136-A01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
- 6. Please provide us with the dates that the PCB Annual Reports were prepared for the years 1984, 1985, 1986, 1987, 1988, and 1989.

Within 15 days of your receipt of this letter, you should provide our office with the requested information. Inquiries and correspondence should be addressed to me at the following address: EPA Region 10, Pesticides and Toxic Substances Branch, Mail Stop AT-083, 1200 Sixth Avenue, Seattle, Washington 98101; telephone (206) 442-2584.

P 070 774 767

#### RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Street an P.O., Sta Postage Certified	Thomas White Deaconess Med Mo. PO Box 24		
P.O., Sta	P.O., State and ZIP Code Spokane, WA		
Postage	*	s	
Certified	Fee		
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	ceipt showing to whom, d Address of Delivery		
	ostage and Fees	\$	
	c or Date		
Postmari June	18, 1990		

M. Clan Hays

M. Eileen Hayes
Environmental Protection Specialist

Put your address in the "RETURN TO" Space on the reve card from being returned to you. The return receipt fee will to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reques 1. XX Show to whom delivered, date, and addressee's an (Extra charge)	g services are available. Consult postmaster sted. ddress. 2.   Restricted Delivery (Extra charge)
3. Article Addressed to:  Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248	4. Article Number P 070 774 767  Type of Service: Hagistered Insured COD Express Mail Return Receipt for Merchandise  Always obtain signature of addressee or egent and DATE DELIVERED.
5. Signature — Address  K.  B. Signature — Agent  K. Lenny C. Robey  7. Date of Delivery	8. Addressee's Address (ONLY if requested and fee paid)



# DEACONESS MEDICAL CENTER SPOKANE

April 26, 1990

West 800 Fifth Avenue

Post Office Box 248 Spokane, WA 99210-0248

(509) 458-5800

Mr. Gil Haselberger, Chief Toxic Substances Section EPA Region 10 1200 Sixth Avenue, AT-093 Seattle, Washington 98101

Dear Mr. Haselberger,

Thank you for your correspondence of April 7, 1990, concerning the March 5, 1990 inspection by Michael R. Hoyles of the EPA pursuant to Section II of the TSCA. Specifically, the inspection was to determine whether activities of Deaconess Medical Center, Spokane, were in compliance with EPA regulations governing polychlorinated biphenyls (PCB), 40 CFR Part 761. We have thoroughly reviewed the violations noted, and offer the following;

Violations One Through Five 40 C.F.R. & 761.30 (A) (1) (xiii)

(A) All of the PCB Transformers that were on site at Deaconess Medical Center did have an impervious, undrained, secondary containment capacity of at least 100 percent of the total dielectric fluid volume. Therefore, the transformers were inspected at least annually.

#### Violation One:

ITE, serial number 20982-A01, 2000 KVA, 315 gallons askarel, formerly located in the Chiller Building.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

At the time of retrofitting 12/88 (see related manifest and certificate of disposal dated 07/89)





West 800 Fifth Avenue

Post Office Box 248

Spokane, WA

99210-0248

# **DEACONESS**

#### MEDICAL CENTER · SPOKANE

#### Violation Two

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, formerly located in the North Wing Vault.

In addition to periodic visual inspections by our inhouse Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

At the time of Retrofitting 01/04/89 (see Related Manifest and Certificates of Disposal dated 01/04/90)

#### Violation Three

ITE, serial number 20982-B01, 140 gallons Askarel, formerly located on the South Wing roof.

In addition to periodic visual inspections by our inhouse Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

And at the time of retrofitting 01/28/89 (see related Manifest and Certificate of Disposal dated 12/08/89)

#### Violation Four

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

To be retrofitted in 1990.

In addition to periodic visual inspections by our inhouse Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

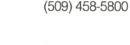
01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)







West 800 Fifth Avenue

Post Office Box 248

Spokane, WA

(509) 458-5800

99210-0248

# **DEACONESS**

#### MEDICAL CENTER · SPOK ANE

#### Violation Five

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault. To be retrofitted in 1990.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

Periodic visual inspections by our in-house Maintenance staff

#### Violation Six

A PCB label has been added to the Sherwood Vault door.

#### Violation Seven Through Eleven

See related annual reports 1984, 1985, 1986, 1987, 1988, and 1989.

#### Violation Twelve Through Sixteen

PCB transformers were registered with the Spokane Fire Department in early 1986, (see letter dated March 6, 1986), and reconfirmed on the two remaining transformers by Ken Bayne to SFD Terry Reed after the EPA inspection of March 1990.

We trust that these documents and the outline of activity at Deaconess in regards to polychlorinated biphenyls (PCB) fulfills the requirements as set forth under 40 CFR Part 761.

Please contact me if further clarification is needed. We anticipate having all PCB materials off site by December of 1990.

Sincerely,

Ken Bayne

Safety and Security Manager

Dove Martin

Dave Martin

Director of Risk Management



# 1986 PCB Annual Report Deaconess Medical Center W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dieleutric fluid of each transformer. The last fluid test was performed on 01/10/86. See attached related documents. Additionally, on March 6, 1986, the locations and contents of the transformers were reported to Richard Sweetland of the Spokane Fire Department to fulfill EPA regulations.

#### Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

#### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

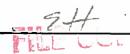
#### Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

#### Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne Safety Manager





AT-083

APR 0 9 1990

TSCA Referral for Administrative Civil Penalty: Deaconess Medical Center, Spokane, Washington

Gil Haselberger, Chief Julian M. Wedgebor Toxic Substances Section

Jackson Fox, Regional Counsel

THRU:

Kenneth D. Feigner, Chief

Pesticides and Toxic Substances Branch

On March 5, 1990, an EPA inspection was performed by Michael R. Hoyles at Deaconess Medical Center, West 800 5th Avenue, Spokane, Washington. The inspection was carried out to assess compliance with the PCB Regulations adopted by EPA pursuant to the Toxic Substances Control Act (TSCA).

During the inspection, violations of the regulations were noted, as listed in the attached proposed civil complaint.

#### Compliance History

This facility has not been previously inspected for TSCA PCB compliance by EPA and there is no record in EPA Region 10 files of prior noncompliance.

#### Request for Action

Description of Current Alleged Violations

Violation - Use (Quarterly Inspections)

Level - Two

Extent - Significant (315 gallons)

Penalty - \$13,000

## I. Description of Current Alleged Violations

2-3.	Violation - Level - Extent - Penalty -	Use (Quarterly Inspections) Two Minor \$6,000 (2 x \$3,000)
4-5.	Violation - Level -	Use (Quarterly Inspections) Two
	Extent - Penalty -	Minor \$3,000*
6.	Violation - Level - Extent - Penalty -	Marking Five Minor \$500
7-11.	Violation - Level - Extent - Penalty -	Recordkeeping Four Significant \$24,000**
12-16.	Violation - Level Extent - Penalty -	Use Four Significant \$6,000***

\*\$3,000 penalty combinedtransformers located in the same room.

\*\*\$24,000 penalty combined

\*\*\*\$6,000 penalty combined

#### II. Initial Penalty Assessment

	Regulation	<u>Requirement</u>	Penalty Amount
1-5.	40 C.F.R. § 761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
6.	40 C.F.R. § 761.40(j)(1)	Marking	\$ 500
7-11.	40 C.F.R. § 761.180(a)	Recordkeeping	\$24,000
12-16.	40 C.F.R. § 761.30(a)(1)(vi)	Use (Fire Registration) TOTAL	\$ 6.000 \$52,500

The TSCA Case Reviewer assigned to this case is Eileen Hayes, 2-2584. Attachment

Tione



AT-083

APR 0 9 1990

TSCA Referral for Administrative Civil Penalty: Deaconess Medical Center, Spokane, Washington

Gil Haselberger, Chief Whiten M. Wedgeber
Toxic Substances Section

Jackson Fox, Regional Counsel

THRU:

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During the inspection, violations of the regulations were noted, as listed in the attached proposed civil complaint.

#### Compliance History

This facility has not been previously inspected for TSCA PCB compliance by EPA and there is no record in EPA Region 10 files of prior noncompliance.

#### Request for Action

This assessment is being referred to you for consideration of enforcement action. An Administrative Civil Penalty appears to be in order because of the significance of the violations. Deaconess Medical Center was notified of the current violations by certified letter dated \_\_\_\_\_\_\_APR 0.9 1990 \_\_\_\_\_\_. Following is a Civil Penalty Assessment for documented violations of TSCA.

Description of Current Alleged Violations

1. Violation - Use (Quarterly Inspections)

Level - Two

Extent - Significant (315 gallons)

Penalty - \$13,000

### I. Description of Current Alleged Violations

2-3.	Violation - Level - Extent - Penalty -	Use (Quarterly Inspections) Two Minor \$6,000 (2 x \$3,000)
4-5.	Violation - Level - Extent - Penalty -	Use (Quarterly Inspections) Two Minor \$3,000*
6.	Violation - Level - Extent - Penalty -	Marking Five Minor \$500
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12-16.	Violation - Level - Extent - Penalty -	Use Four Significant \$6,000***

\*\$3,000 penalty combinedtransformers located in the same room.

\*\*\$24,000 penalty combined

\*\*\*\$6,000 penalty combined

#### II. Initial Penalty Assessment

	Regulation		Requirement	Penalty Amount
1-5.	40 C.F.R. §	761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
6.	40 C.F.R. §	761.40(j)(1)	Marking	\$ 500
7-11.	40 C.F.R. §	761.180(a)	Recordkeeping	\$24,000
12-16.	40 C.F.R. §	761.30(a)(1)(vi)	Use (Fire Registration) TOTAL	\$ 6,000 \$52,500

The TSCA Case Reviewer assigned to this case is Eileen Hayes, 2-2584. Attachment





APR 0 5 1990

Reply To Attn Of: AT-083

#### <u>CERTIFIED MAIL - RETURN RECEIPT REQUESTED</u>

Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248

Dear Mr. White:

This concerns the March 5, 1990 inspection of Deaconess Medical Center located at West 800 5th Avenue which was performed by Michael R. Hoyles of the United States Environmental Protection Agency (EPA) pursuant to Section 11 of the Toxic Substances Control Act (TSCA). This inspection was conducted to determine whether activities at the facility were in compliance with EPA Regulations governing polychlorinated biphenyls (PCBs), 40 C.F.R. Part 761.

A review of the results of the inspection has been completed. On the basis of this review, it appears that certain violations of EPA regulations occurred at the facility. They are as follows:

#### VIOLATIONS ONE THROUGH THREE

REGULATION - OUARTERLY INSPECTIONS: 40 C.F.R. § 761.30(a)(1)(ix) requires that a visual inspection of each PCB Transformer (as defined in the definition of "PCB Transformer" under § 761.3) in use or stored for reuse shall be performed at least once every 3 months. These inspections may take place any time during the 3-month periods: January-March, April-June, July-September, and October-December as long as there is a minimum of 30 days between inspections. The visual inspection must include investigation for any leak of dielectric fluid on or around the transformer. The extent of the visual inspections will depend on the physical constraints of each transformer installation and should not require an electrical shutdown of the transformer being inspected.

40 C.F.R. § 761.30(a)(1)(xii) states that records of inspection and maintenance history shall be maintained at least 3 years after disposing of a transformer and shall be made available for inspection, upon request by EPA. Such records shall contain the following information for each PCB Transformer:

Its location.

(A) (B) The date of each visual inspection and the date that a leak was discovered, if different from the inspection date.

The person performing the inspection.

(D) The location of any leak(s).

- (E) An estimate of the amount of dielectric fluid released from any
- The date of any cleanup, containment, repair, or replacement. (G) A description of any cleanup, containment, or repair performed.

The results of any containment and daily inspection required (H) for uncorrected active leaks.

40 C.F.R. § 761.30(a)(1)(xiii) states that a reduced visual inspection frequency of at least once every 12 months applies to PCB Transformers that utilize either of the following risk reduction measures.

- (A) A PCB Transformer which has impervious, undrained, secondary containment capacity of at least 100 percent of the total dielectric fluid volume of all transformer so contained, or
- A PCB Transformer which has been tested and found to contain less than 60,000 ppm PCBs (after 3 months of in service use if the transformer has been serviced for purposes of reducing the PCB concentration).

These inspections may take place any time during the calendar year as long as there is a minimum of 180 days between inspections.

<u>VIOLATIONS ONE THROUGH THREE</u>: There is no record of quarterly inspections having been conducted on the following three PCB Transformers prior to their removal from service.

VIOLATION ONE:

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, formerly located in the Chiller Building.

VIOLATION TWO:

ITE, serial number 20982-D01, 500

KVA, 218 gallons Askarel, formerly located in the North

Wing Vault.

**VIOLATION THREE:** 

ITE, serial number 20982-B01, 140 gallons Askarel, formerly located on the South Wing roof.

#### **VIOLATIONS FOUR AND FIVE**

VIOLATIONS FOUR AND FIVE: There is no record of quarterly inspections having been conducted on the two in-service PCB Transformers identified below.

General Electric, serial number **VIOLATION FOUR:** 

G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood

Transformer Vault.

**VIOLATION FIVE:** 

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

#### VIOLATION SIX

**REGULATION - MARKING:** 40 C.F.R. § 761.40(j)(1) requires that as of December 1, 1985, the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to a PCB Transformer must be marked with the required PCB label. In general, a 6 inch by 6 inch PCB label is required, although the label may be reduced in size proportionately to a minimum of 2 inches by 2 inches for equipment too small to accommodate the standard 6 inch by 6 inch label.

**VIOLATION SIX:** The door to the Sherwood Transformer Vault was not marked with the required PCB label.

#### **VIOLATIONS SEVEN THROUGH ELEVEN**

REGULATION - RECORDS & MONITORING: 40 C.F.R. § 761.180(a) states that, beginning July 2, 1978, each owner or operator of a facility using or storing at one time at least 45 kilograms (99.4 pounds) of PCBs contained in PCB Container(s), or one or more PCB Transformers, or 50 or more PCB Large High or Low Voltage Capacitors, shall develop and maintain records on the disposition of the PCBs and PCB Items. The records shall form the basis of an annual document prepared for each facility by July 1, covering the previous calendar year. The following information for each facility shall be included in the annual document:

- The dates when PCBs and PCB Items are removed from service, are 1) placed into storage for disposal, and are placed into transport for disposal. The quantities of the PCBs and PCB Items shall be indicated using the following breakdown:
  - Total weight in kilograms of any PCBs and PCB Items in PCB i) Containers including the identification of container contents such as liquids and capacitors;
  - Total number of PCB Transformers and total weight in kilograms of any PCBs contained in the transformers; and
  - iii) Total number of PCB Large High or Low Voltage Capacitors.
- 2) For PCBs and PCB Items removed from service, the location of the initial disposal or storage facility and the name of the owner or operator of the facility.
- Total quantities of PCBs and PCB Items remaining in service at the 3) end of the calendar year, using the following breakdown:

- i) Total weight in kilograms of any PCBs and PCB Items in PCB Containers, including the identification of container contents such as liquids and capacitors,
- ii) Total number of PCB Transformers and total weight in kilograms of PCBs in the transformers, and
- iii) Total number of PCB Large High or Low Voltage Capacitors.

<u>VIOLATIONS SEVEN THROUGH ELEVEN</u>: There was no record of PCB Annual Documents having been prepared for the years 1984, 1985, 1986, 1987 and 1988.

#### VIOLATIONS TWELVE THROUGH SIXTEEN

<u>REGULATION - REGISTRATION</u>: 40 C.F.R. § 761.30(a)(1)(vi) states that as of December 1, 1985, all PCB Transformers (including PCB Transformers in storage for reuse) must be registered with fire response personnel with primary jurisdiction (that is, the fire department or fire brigade which would normally be called upon for the initial response to a fire involving the equipment), Information required to be provided to fire response personnel for each PCB Transformer includes:

- (A) The location of the PCB Transformer (the address of the building and the physical location of the PCB Transformer on the building site and, for an outdoor PCB Transformer, the location of the outdoor substation).
- (B) The principal constituent of the dielectric fluid in the transformer (e.g., PCBs, mineral oil, or silicone oil).
- (C) The name and telephone number of the person to contact in the event of a fire involving the equipment.

<u>VIOLATIONS TWELVE THROUGH SIXTEEN</u>: The PCB Transformers that are the subject of Violations One through Five were not registered with local fire response personnel prior to December 1, 1985.

We understand that Mr. Hoyles discussed his findings with Ken Bayne, Security and Safety Manager, so that these conditions could be immediately addressed. The Agency believes that these conditions constitute a potential threat to human health and the environment. For this reason, you should immediately take the following steps, if you have not already done so:

 Conduct quarterly inspections of all PCB Transformers (known or imputed) at your facility and maintain records of those inspections, including all of the information prescribed at 40 C.F.R. § 761.30(a)(1)(xii).

- Insure that the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to PCB Transformers are marked with the required PCB label.
- 3. Prepare and maintain PCB Annual Documents for the years 1984, 1985, 1986, 1987, and 1988 and for future years as appropriate as required by 40 C.F.R. § 761.180(a.).

You should be advised that TSCA authorizes penalties of up to \$25,000 per day for each violation. Criminal penalties are authorized for knowing and wilful violations of the law. Correcting the conditions noted in this letter may prevent future violations. However, it will not provide protection from Agency enforcement action for those violations that have already occurred. Nothing in this letter should be construed to waive or limit any remedy available to EPA by virtue of conditions at your facility or the acts or omissions of your company. We are referring this case to EPA's Region 10 Office of Regional Counsel for possible enforcement action. In this regard, you will be receiving further correspondence from EPA.

Please understand that the aforementioned steps are being recommended to avoid risk to health and the environment. Your company bears the ultimate responsibility for taking all steps necessary to comply with the law. If you have any questions regarding this letter, please contact Eileen Hayes of my staff.— She can be reached at EPA Region 10, 1200 Sixth Avenue, AT-093, Seattle, Washington 98101, telephone (206) 442-2584.

Sincerely,

William M. Hedgebute

Gil Haselberger, Chief

Toxic Substances Section

cc:

Bill Danson, EPA Ht, EN-342

P 539 662 369

#### RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

			(See Heverse)	UNCRE
		234-555	Sent to Thomas White, Pi	residen
SENDER: Complete items 1 and 2 when additional 3 and 4.  Put your address in the "RETURN TO" Space on the reverse.	Characteristics of the confidence of the confide	1989-2	Street and No. Deaconess Medica	al Cent
Put your address in the "RETURN TO" Space on the reverser from being retended to you. The return receipt fee will to and the det of delivery. For additional fees the followin for fees, of check box(es) for additional service(s) request. Show to whom delivered, date, and addressee's a	provide you the name of the parson delivered of services are available. Consult postmaster sted.	0.9.0.8	P.O. State and ZIP Code P.O. Box 248	
(Extra charge)	(Extra charge)	74	PostagSpokane, WA 992	0-0248
3. Article Addressed to: Mr. Thomas White, President	4. Article Number P~539_562_369		Certified Fee	2 21
Deaconess Medical Center P.O. Box 248	Typs of Service:		Special Delivery Fee	
Spokane, WA 99210-0248	Cortified COD Express Mall Return Receipt for Merchandise		Restricted Delivery Fee	
	Always optain signature of addresses		Return Receipt showing to whom and Date Delivered	
5. Signature — Address	8. Addressee's Address (ONLY if	1985	Return Receipt showing to whom, Date, and Address of Delivery	
6. Signature Agent	requested and fee paid)	June	TOTAL Postage and Fees	\$
x 1x 000 10x X /11		900	Postmark or Date	
7. Date of Delivery		Porm 3	04/09/90	
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212	-885 DOMESTIC RETURN RECEIPT	- 8		

#### ACTIVITY REPORT

TRANSMISSION OK

TX/RX NO. 2506

CONNECTION TEL 8 206 438 7484

CONNECTION ID

MIKE HOYLES WOO

START TIME

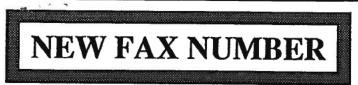
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USAGE TIME

03'21

PAGES

6/006



FAX: (206) 442-0110 FTS 399-0110

> TO CONFIRM YOUR FAX, CALL THE PERSON YOUR FAX WAS SENT TO.

•	TO: Michael	R. Hoyeld S	
]	PHONE NUMBER:	8-434-9079	
•	CITY, STATE / REG	HON: WOO	
]	FAX NUMBER:		55.00
]	FROM: Z. WAY	25	(96)
]	PHONE NUMBER:	442-2584	
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TOTAL PAGES	,	Please Concurs Via phone ASAP The	faxor
ADDITIONAL REGIO	N 10 FAX NUMBERS:	9/4	
FOR FAX INFORMATION	CALL (206) 442-4141 FOR	THE FAX OPERATOR. GENERAL FAX	(# (206) 442-4672
Regional Administrator Press Office Congressional Activities	(206) 442-0149 FTS 399-0149	Management Division	(206) 442-4672 FTS 399-4672
Office of Enforcement Office of Criminal Investigation	on	Office of Regional Counsel	(206) 442-0163 FTS 399-0163
Air and Toxics Division Presticides Branch	(206) 442-0110 FTS 399-0110	Superfund Branch RCRA Branch Hazardous Waste Policy	(206) 442-0124 FTS 399-0124
Environmental Services	(206) 442-0119 FTS 399-0119	Water Division	(206) 442-0165 FTS 399-0165

# <del>SEP</del>A

Add Change Delete **SEPA** 

Requested by: <u>Yvonne</u> Springs

FATES/FTTS

FINDS Input Form

EPA 10 Number:  Facility Name:  Dea Coness Medica  Street:  WAD 98847  Dea Coness Medica	
	Wa ZIPCOPE: 99210
County Code : Spekane   863 Congression Owner Type : P Operator Typ Latitude : Lat-Long Soc Longitude : Lat-Long Acc	pe :
SIC Codes : : : : : : : : : : : : : : : : : : :	acility: (Y,N)
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HWDMS (OSW)	
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Deaconess Medical Center West 800 Fifth Avenue

ty Dece	Spokane, Washington 99210	Ref
acilii r to [		Ref
s): F 1 prio	03/05/90 Date of Inspection	Michael Name of Inspe
olation ersonne	Comments: This facility	
(5 vio	and there is no record in EPA Region 10	sly inspected for files of prior no
Regulation - Use (Fire Registration) (5 violations): Facility or PCB Transformers with local fire response personnel prior to Dece	Information was provided to EPA from the documenting this facility registering the Department. Five PCB Transformers were rPCB Transformers were registered in March	ir PCB equipment ( egistered with fi
ire Re h loca	At the time of the inspection two PCB Transferance of three PCB Transferance	nsformers were st
e (Fi	Violations noted at the time of the inspe	ction.
ation - Us ansformers	Regulation - Use (Quarterly Inspections) records of quarterly inspections having be transformers that were removed from service Transformers remaining in service.	een conducted on t
	Regulation - Marking (1 violation): The Smarked with the required PCB label. (NOTE sign that was approximately 10 inches by Room".)	Sherwood vault roo E: The facility h 14 inches that sai
Addendum:	Regulation - Recordkeeping (5 violations): for the years 1984, 1985, 1986, 1987, and	There were no P
	Recommend referral to ORC for issuance of	an Administrative
	980000 3/27/90 Concur	Do not Concur
	FATES INSPECTION #	DATE ENTERED
	CASE #	DATE SURGO

t		-ACTION TAKEN
		No Action Indicated
		Notice Noncompliance
	X	Refer for Ad. Civil Penalty
L		Refer for Criminal Penalty
L		Refer to State

R. Hoyles

ctor

TSCA PCB compliance by EPA ncompliance.

VIOLATION ASSESSMENT (

Name & title of Evaluator)

ire department with the Fire re department. The

ill in use. The

There were no the three the two PCB

om door was not nad installed a red d "PCB Transformer

CB Annual Documents

Complaint.

Do	not Concur
DATE	ENTERED
DATE	ENTERED

Deaconess Medical Oper P.O. Box 248 West 800 Fifth Avenue Spokane, Washington 99210-0248

Date: March 5, 1990

Michael R. Hoyles, Environmental Protection Specialist Washington Operations Office



#### Compliance History:

Information was provided to EPA from the City of Spokane fire department documenting this facility registering of PCB equipment with their department. According to the information, there are five PCB transformers at this facility.

#### Pre-Inspection Conference:

I arrived at the facility and met Ken Bayne, Security and Safety Manager. I presented my credentials and explained the purpose of my visit. I filled out the TSCA Notice of Inspection and Confidentially Notice, had him fill out and sign the appropriate areas, and gave him a copy of each. Ken introduced me to Charles M. Echelbarger, Operations Manager Physical Plant Department, who was more familiar with the PCB activity at this facility.

#### Record Review:

This facility had no annual reports. The closest thing they had to an annual report were test results from Transformer Consultants. I made a copy of one set and it is enclosed with this report.

This facility did not have any quarterly inspection reports.

According to Mr. Bayne, the facility had recently disposed of three PCB transformers and was able to produce documentation of this. I had copies of the hazardous waste manifest copied and they are enclosed. I have also included documentation which describes the five PCB transformers in question and the locations match those in the fire department letter which is also enclosed.

At the present time, they have two FCB transformers still in use that they plan to dispose of in the very near future, according to Mr. Bayne.

# Inspection of Facility:

Mr. Echelbarger took me to the locations where the five transformers are in use or were in use. I thought it prudent to look at the locations where the three removed transformers were located in order to document containment and look for possible residual transformer liquids if there had been leaks.

We first went to the Shirwood transformer vault. There was no ML label on the door which was locked, however, there was a red sign approximately 10 inches by 14 inches that said "PCB transformer room". The room was 11 feet by 16 feet with a four inch high curb at the two door ways. The curb was made of steel and appeared to be sealed where it met the floor and walls. There was a drain but it was plugged with concrete. There were two transformers in this room.

The fist was a General Electric, 225 KVA (S/N G854825) PYRANOL transformer. According to the name plate it contained 100 gallons. There was a ML label on it and it was not leaking.

The second was a ITE (S/N 20136-A01) transformer. According to the name plate it contained 117 gallons. It had a ML label and was not leaking.

We then went to the south wing to a room that was 8 feet by 13 feet with a ten inch high curb. It's drain had also been plugged with concrete. I saw no evidence that would lead me to conclude that the PCB transformer that had been in there had leaked. There was, of course, no indication on the door that PCB equipment was there. The door was locked. We next went to the north wing in which is located a 20 feet by 10 feet room with a six inch gap between the floor and the bottom of the metal door. The door was locked and, of course, there was no indication on the door that PCBs were present. According to Mr. Echelbarger, the concrete curbing that had been there needed to be removed in order to extract the PCB transformer. I could see where the curb had been removed. There was no indication that the PCB equipment that had been in this room had ever leaked.

We then went to the chiller room which measured 12 feet by 20 feet with a three inch high curb. As with the other two rooms, there was no indication on the door of any PCB contents and the door was locked. There was no indication on the pad that would lead me to believe that the PCB transformer had ever leaked.

## Sample Collection:

None.

# Closing Discussion:

I informed Mr. Bayne of a lack of annual reports and quarterly inspection reports and the lack of a ML label on the Shirwood transformer room door. I thanked him for his time and left the facility.

# PCB INSPECTION PLAN

{Must be Completed and Filed with RSCC and RQAMO for all PCB Inspections)					
STATUS: Enforcement Sensitive; CBI; Open; Routine_X_					
SITE IDENTIFIER:  Deaconess Medical Center Spokane					
AUTHORIZED INSPECTOR: Michael R. Hoyles, Environmental Protection Specialist					
DESIGNATED MANAGER: Michael R. Hoyles, Environmental Protection Specialist					
INSPECTION TEAM OR DELEGATED AUTHORITIES: Michael R. Hoyles, Environmental Protection Specialist					
RQAMO CONCURRENCE:DATE					
ESD PEER REVIEW:DATE					
Project Number:Account Number:					
Laboratory Designated: EPA; CLP; PRIVATE					
Sample Numbers Assigned:to					
SAMPLE SCHEDULE AND MILESTONES:  (This schedule must be filled out ACCURATELY and COMPLETELY)					
DATE 3/5/90					
ACTIVITY inspection					
MATRIX					
# OF SAMPLES					
Regional Sample Control Center Review:					
Acceptance Date:					
roject Description and Site Location: Deaconess Medical Center P.O. Box 248 West 800 Fifth Avenue Spokane, Washington 99210-0248					

Sample Rationale and Network Derivation:	
Cooperating Agencies, Involved Parties:	
Special Considerations or "open" requirements:	
(Continue on back if necessary)	



#### US ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

#### **TOXIC SUBSTANCES CONTROL ACT**

Form Approved OMB No. 2070-0007 Expires 3-31-88

TSCA INSPECTION CONFIDENTIALITY NOTICE

1. INVESTIGATION IDENTIFICATION	DEACONESS MEDICAL GENTER
DATE 3-90 INSPECTOR NO. DAILY SEQ. NO.	DEACONESS MADICE - STEEL
3. INSPECTOR NAME  MICHAEL RHOPLES  5. INSPECTOR ADDRESS  E COLOGY PU-11  OLTUPIA, WA 28504	1. FIRM ADDRESS PO BOX 248 WEST 800 FIRTH AVE SPOKKE, WA 99210-0248
OLTOPIA, WA 28504	6. CHIEF EXECUTIVE OFFICER NAME THOUAS ZEUTS 7. TITLE CHIEF

### TO ASSERT A CONFIDENTIAL BUSINESS INFORMATION CLAIM

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of information Act (FOIA), 5 USC 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Toxic Substances Control Act (TSCA), Section 14. EPA is required to make inspection data available in response to FOIA requests unless the Administrator of the Agency determines that the data contain information entitled to confidential treatment or may be withheld from release under other exceptions of FOIA.

Any or all the information collected by EPA during the inspection may be claimed confidential if it relates to trade secrets or commercial or financial matters that you consider to be confidential business information. If you assert a CBI claim, EPA will disclose the information only to the extent, and by means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential business information, Among other things, the regulations require that EPA notify you in advance of publicly disclosing any information you have claimed as confidential business information.

A confidential business information (CBI) claim may be asserted at any time. You may assert a CBI claim prior to, during, or after the information is collected. The declaration form was developed by the Agency to assist you in asserting a CBI claim. If it is more convenient for you to assert a CBI claim on your own stationery or by marking the individual documents or samples "TSCA confidential business information," it is not necessary for you to use this form. The inspector will be glad to answer any questions you may have regarding the Agency's CBI procedures.

While you may claim any collected information or sample as confidential business information, such claims are unlikely to be upheld if they are challenged unless the information meets the following criteria:

 Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.

- The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on showing of special need in a judicial or quasi-judicial proceeding).
- The information is not publicly available elsewhere.
- Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential business information.

If you are not authorized by your company to assert a CBI claim, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials to the Chief Executive Officer of your firm within 2 days of this date. The Chief Executive Officer must return a statement specifying any information which should receive confidential treatment.

The statement from the Chief Executive Officer should be addressed to:

and mailed by registered, return-receipt requested mail within 7 calendar days of receipt of this Notice. Claims may be made any time after the inspection, but inspection data will not be entered into the special security system for TSCA confidential business information until an official confidentiality claim is made. The data will be handled under the agency's routine security system unless and until a claim is made.

	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	
TO BE COMPLETED BY FACILITY OFFICIAL F	ECEIVING THIS NOTICE:	If there is no one on the premises of the facility who is authorized to make business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the company's chief executive officer. If there is another company official who should also receive this information, please designate below.
Hemeth M. Bayne		NAME
Ken Bairne		TITLE
Scropits Safety Mak	3-5-90	ADDRESS
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## US ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DO 20460

<b>Ş</b> FPΔ	TOXIC SUBSTANC	ES CONTROL ACT	OMB No. 2070-0007 Expires 3-31-88
	NOTICE OF	INSPECTION	0.5 (100 N = 0.00 R) 10 (100 A)
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4. INSPECTOR ADDRESS  %, Ecology PV-11  OLYWCA, WA 9857	o¥	5. FIRM ADDRESS PO BOX 248 West 800 Fifth Due 500 Factor WA 99210-	0248
	REASON FO	R INSPECTION	
Under the authority of Section 11 of	f the Toxic Substanc	es Control Act :	
ment, facility, or other premises in we essed or stored, or held before or after facilities) and any conveyance being with their distribution in commerce	which chemical substi er their distribution used to transport ch (including records, f o the chemical subst	photographs, statements, and other inspection ances or mixtures or articles containing same in commerce (including records, files, papers, emical substances, mixtures, or articles contailes, papers, processes, controls, and facilities, ances, mixtures, or articles within or associated.	are manufactured, proc- , processes, controls, and ining same in connection ) bearing on whether the
In addition, this inspection extends t	to (Check appropriat	e blocks):	
A. Financial data		D. Personnel data	
B. Sales data		E. Research data	
C. Pricing data			
The nature and extent of inspection	of such data specifie	ed in A through E above is as follows:	
			V

EPA Form 7740-3 (12-82)	INSPECTION FILE	FACILITY AEGIONAL OFFIC	INSPECTOR'S FIL
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INSPECTOR'S FILE

3-5-90

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ANNUAL NEPORTS

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JAN 19'90 EPA-WOO



January 16, 1990



ROBERT S. WILLIAMS FIRE CHIEF

Mr. Michael R. Hoyles Air and TSCA Programs Coordinator Washington Operations Office c/o Washington Department of Ecology, PV-11 Olympia, Washington 98504

Dear Mr. Hoyles:

In reference to your letter of 11/16/89, I am enclosing copies of correspondence that this agency has received from Deaconess Medical Center and the City's Water and Hydroelectric Services having to do with PCB transformer locations. I believe the letters are selfexplanatory and address the questions that you have requested.

If there are any questions, please feel free to call.

Sincere

Garry Miller, Fire Harshal

Fire Prevention Bureau

GM/df Enc.



## DEACONESS MEDICAL CENTER · SPOKANE

Mel HAYES

JAN 19 '90 EPA-WOO

March 6, 1986

Richard Sweetland Assistant Fire Chief Spokane Fire Department W. 44 Riverside Spokane, WA 99201

In response to a recent E.P.A. regulation, this letter is to inform you and serve as a registration of P.C.B. oil filled transformers in Deaconess Medical Center.

The locations are as follows:

- (1) North Wing basement.
- (1) Chiller building, upper deck.
- (2) Sherwood building, courtyard area.

hand N. Mable

(1) South wing roof.

We would be pleased to have your representative inspect the areas aforementioned. If you have any further questions, please call me.

Richard N. Mabbott

Director of Physical Plant

RNM/baw

# JAN 19'90 EPA-WOO



July 8, 1987

Paul Olsen, Chief Spokane Fire Department W. 44 Riverside Avenue Spokane, WA 99201

Dear Chief Olsen:

The Water & Hydroelectric Services Department's Baxter Well Station, located at N. 4401 Aubrey L. White Parkway, has one (1) electrical transformer containing PCB dielectric cooling fluid.

The enclosed diagram shows the location of the transformer at the station.

If we need to supply additional information to comply with Federal Regulations in this matter, please let us know.

## Emergency Contact Persons are:

Mike Melville Water Hydro Plant Foreman W. 3507 Taft Drive Spokane, WA 99208 326-3385 (Home) 456-2645 (Work) Leon Sproule Water Hydro Plant Supt. Rt. #1, Box 123 Chattaroy, WA 99003 238-6318 (Home) 456-2645 (Work)

Sincerely,

John Bjork, Girector

Water & Hydroelectric Services

JB:jlf

Enclosure

cc: Phil Williams, Director Environmental Programs

Typeria I Wille PRIVARY TREATURNT ADMINISTRAT-ON BUILDING - AC SPHERE PRIVARY CLARIFIER CLANFRER P.ANT PROCESS CHILDING -- B PRINCE STATION CHISTOPHELE PARTY TO THE PROPERTY OF THE PROPE PRIMARY \*~ EMROWGA3H GRAVITY INCHENERS CISTRIBUTION BOX B' SECCHDARY & STOPHW TREATMENT LOCALS! INCRETER APEA-CHLORINE BLOG-DIGESTER) CHESTER) SECGNOARY CLARIFIER STORM WATER BARTER MELLY SECONDARY 12.01 AERATION CLARIFIER SHEGGI BASINS SC 3 SC s SCI 3 BA 481 SENC CANOCE SECONDARY SECONDARY STORM WATER CLARIFIER PLANT WATE F GALL SC 4 CONTACT CONTACT BASINS OUTFALL 100 YEAR PLOOD LIMIT-NOTE: muttereside seletadis FARTHEST TRANSFORMER FROM THE PUMP STATION SITE PLAN

RECEIVED.

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# 1989 PCB Annual Report Deaconess Medical Center W. 800 5th Ave. Spokane, WA

Summary: Two of the original five PCB transformers remain on site. Periodic inspections by Deaconess Maintenance Personnel found them to be in good condition with no fluid leaks. These transformers are in impervious concrete containment basins capable of holding at least 100% of the dielectric fluid of each transformer.

## Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building. No longer on site. See Certificate of Destruction 1988 report.

### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault. No longer on site. See Certificate of Destruction 1988 report.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof. No longer on site. See Certificate of Destruction 1988 report.

## Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

## Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne Safety Manager Annt or type. (Form designed for use on elite (12-pitch) typewriter.)

a.

b. RQ

d.

RTER

RQ

CHILIPPE BULLDING MYFEB 2 7 1989 Form Approved, OMB No. 2050-0039, Expires 9-30-91 Manifest 1. Generator's US EPA ID No **UNIFORM HAZARDOUS** 2. Page 1 Information in the shaded areas Document No. is not required by Federal law. WASTE MANIFEST 4 5 2 J E of p Empire Hill Service A. State Manifest Document Number 3. Generator's Name and Mailing Address P.O. Box 248 B. State Generator's ID Spokane, WA 99210 509) 458-7025 4. Generator's Phone ( US EPA ID Number C. State Transporter's ID 5. Transporter 1 Company Name м м D 9 8 0 7 9 1 3 D. Transporter's Phone 612-469-3475 Aptus E. State Transporter's ID US EPA ID Number 7. Transporter 2 Company Name F. Transporter's Phone 9. Designated Facility Name and Site Address US EPA ID Number G. State Facility's ID Aptus H. Facility's Phone P.O. Box 1328/Hwy. 169 North | K | S | D | 9 | 8 | O | 9 | 6 | 4 | 9 | 9 | 3 Coffeyville, KS 67337 316-251-6380 13. Total Quantity 12. Containers 14. Unit Wt/Vo Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) Type EST WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188 WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., <u>೧|೮|</u>៩|<sup>D</sup>|<sup>M</sup> (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188 2/7/5/10 3 waste Hazardeus Substance, Salid, N.O.S., LPOlychLoringted Biphenyls) orm-ENA 9188 ilol3 K. Handling Codes for Wastes Listed Above J. Additional Descriptions for Materials Listed Above a. transformer drained of askarel = 8,165 lbs. b. drums of askarel = 262 gallons
Q drum of Debris = 62 lbs. 15. Special Handling Instructions and Additional Information Pick Up: Deaconess Hospital W. 80 5th. Ave. See Enclosed Contingency Plan Spokane, WA 99210 Work Order #33050 W45 H19645e 井 5EE9002 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Day Printed/Typed Name O / 258 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Year C 49 r/e5 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space

Printed/Typed Name

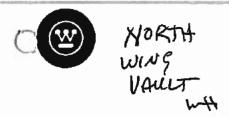
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature

Month Day

Year

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Westing house # SEE88052  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this	consignment are fully and a	accurately d	lescribed	above by				
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Westinghouse Electric Corporation Advanced Industrial Systems Divisions Engineering Services 1180 Andover Park West Seattle WA 98188 (206) 575 2345

January 12, 1990

Empire Hill Service P. O. Box 248 Spokane, Wa. 99210

Attention: Hazardous Waste Manager

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9509

Manifest Number 981 HE (Westinghouse No. 88052)

Your Order 18521-04 Our Order SEEM624

### Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

David E. Neustel for David E. Neustel Senior Engineer

DEN/dz Enclosures

c: Eileen Hiramoto

cc: Westinghouse, Western Region Office, Compton



January 13, 1989 JAN 18 1989

PESTICIDES & TOXIC SUBSTANCES BRANCH EPA REGION 10

Mr. Gil Haselberger, Chief
Toxic Substances Section
U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101



I am responding to your letter of 12/30/88 concerning the registration of PCB transformers that have been registered with the Spokane City Fire Department. Our records show the following registrations:

- Deaconess Medical Center, W. 800 Fifth Ave. four transformers of unknown principal constituent located as follows:
  - A. NW basement.
  - B. Chiller building upper deck.
  - C. Sherwood Bldg. courtyard area.
  - D. South wing roof.

The contact person listed is Richard Mabbott, Director of Physical Plant, phone (509) 458-5800.

- 2. Gonzaga University PCB transformers located as follows:
  - A. Madonna Hall, N. 1000 Cincinnati St. three transformers 37KVA askarel transformers.
  - B. Student Union Bldg., E. 700 Desmet Ave. one transformer aroclor (contaminated 378 parts per million).
  - C. St. Catherine/Monica Hall, N. 900 Cincinnati St. one recovery drum storing miscellaneous equipment for maintenance, etc. PCB transformers.

Contact person is Ken Sammons, Director of University Services, E. 220 Boone Ave., phone (509) 328-4220.

- City Water and Hydroelectric Services Dept. Barter Well Station, N. 4401 Aubrey L. White Parkway - one transformer unspecified principal constituent. Contact person is Mike Melville, Plant Foreman, phone (509) 456-2645.
- 4. W. I. Forest Products, Long Lake Division, E. 2302 Mallon Ave. - two transformers principal constituent pyronol. Also, four transformers with an unknown constituent. This agency has no contact person or phone number listed.



- 5. Advanced Waste Water Treatment Plant, N. 4401 Aubrey L. White Parkway four transformers non-specified constituent fluids. Contact person is John Snell, Maintenance Supervisor, phone (509) 456-4305.
- 6. Whitworth College, Spokane, WA 99251 four transformers located as follows:
  - A. Arend Hall unspecified constituent.
  - B. Warren Hall unspecified constituent.
  - C. McEachron Hall unspecified constituent.
  - D. Chapel unspecified constituent.

Contact person is Don Holden, Physical Plant Director, phone (509) 466-1000.

I have answered your questionnaire as best I can at this date. I hope that this information is helpful.

Sincere**%**y,

Garry Miller, Fire Marshal Fire Prevention Bureau W. 44 Riverside Ave. Spokane, WA 99201

Telephone (509) 456-2694

GM/df

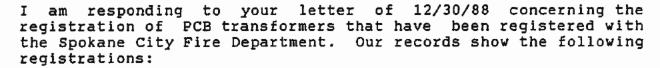


January 13, 1989 JAN 18 1989

PESTICIDES & TOXIC SUBSTANCES BRANCH EPA REGION 10

Mr. Gil Haselberger, Chief
Toxic Substances Section
U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Dear Mr. Haselberger:



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Garry Miller, Fire Marshal Fire Prevention Bureau W. 44 Riverside Ave.

Spokane, WA 99201

Telephone (509) 456-2694

GM/df

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# 1988 PCB Annual Report Deaconess Medical Center W. 800 5th Ave. Spokane, WA

Summary: Retrofitting of three of the five PCB transformers began in December of 1988. All transformers were periodically inspected by Deaconess Maintenance Personnel and found to be in good condition with no fluid leaks. The remaining transformers are all in impervious concrete containment basins capable of holding at least 100% of the dielectric fluid of each transformer.

Transformer # 1 - ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Removed from service on 12/01/88

(See related documents)

Transformer # 2 - ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Removed from service on 12/01/88

(see related documents)

Transformer # 3 - ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Removed from service on 12/03/88

(see related documents)

## Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building. No longer on site.

#### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault. No longer on site.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof. No longer on site.

## Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

### Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.



Westinghouse Electric Corporation Advanced Industrial Systems Divisions Engineering Services 1 180 Andover Park West Seattle WA 98 188 (206) 575 2345

August 1, 1989

Empire Health Service P. O. Box 248 Spokane, Wa. 99210

Subject: Final PCB Disposal Documents/Certification of Disposal Number 7013

Manifest Number 775HE (Westinghouse Number 88049)

Your Order 18521-04 Our Order SEEM624

Gentlemen:

Enclosed, please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

David E. Neustel Senior Engineer

DEN/dz Enclosures

cc: Merald Dailey

cc: Westinghouse - Western Region Office, Compton

July 19, 1989

Aptus Environmental Services

P.O. Box 1328 Colleyville, KS 67337 (316) 251-6380 (800) 292-2558 FAX (316) 251-7498 Sales FAX (316) 251-1095 Confidential FAX (316) 251-0091 Incinerator FAX (316) 251-0089

## **APTUS**

## CERTIFICATE OF DISPOSAL

NO. 7013

Empire Hill Service P.O. Box 248 Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APTUS ON APTUS DOCUMENT # 775HE WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 AS OF 07/07/89. Manifest No. 88049

**APTUS** 

EPA ID # KSD980964993

SHERI SANDERS

PCB DOCUMENT ADMINISTRATOR

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Empire Hill Service

P.O. Box 248

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AOE: 503-458-7025

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CORESPONDI

Westinghouse

1180 Anower Park Wast

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**#A 99188** 

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RDE: 206-575-2345

Mr. Dave Haustall

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APT DOC # 775HE

DATE OF REPORT: 07/19/89

DATE CHEDIED IN: 12/08/88

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## Westinghouse Electric Corporation

# Industry Services Divisions

Engineering Services 1180 Andover Park West Seattle, WA 9818B (206) 575-2345

February 24, 1989

Empire Health Service P.O. Box 248 Spokane, Wa. 99210 Sin Sulp

Reference: Uniform Hazardous Waste Manifest No. 452JE

Your Order No. 18521-04 Our Order No. SEEM624

### Gentlemen:

Please find enclosed the original Uniform Hazardous Waste Manifest for waste material removed from your site by Westinghouse.

As is required, please keep this document for your records.

Should further assistance be required, feel free to contact us any time. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

K. G. Hammond, Manager Seattle Operations Center

KGH/dz Enclosure

lca	se p	print or type. (Form designed for use on elite ( itch) typewriter.)			<b>\</b>	Form Approved. O	M8 No. 2	050-0039. Expires 9-30-91
A		UNIFORM HAZARDOUS Generator's US EPA		ment No.		l le not r	ation In equired	the shaded areas d by Federal law.
П	3.	Generator's Name and Mailing Address Empire Hill S P.O. Box 248	Service		A. S	tate Manifest Do	cumen	t Number
П		Spokane, WA	99210		B. S	tate Generator's	ID 36	
	_	Generator's Phone ( 509) 458-7025				47年的198		
	5.	Transporter 1 Company Name 6. Aptus 1 M I	US EPA ID Numbe					AFFECT OF THE SECOND
lŀ	7.	Transporter 2 Company Name 8.	US EPA ID Numbe		E. S	tate Transporter	sID *	12-469-3475
Ц			<u> </u>					C. C
	9.	Designated Facility Name and Site Address 10.  Aptus	US EPA ID Numbe	er	200	tate Facility's ID	到了原	**************************************
		P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337 K	ы <u>। । । । । । । । । । । । । । । । । । ।</u>		3	acility's Phone	316	-251-6380
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Westinghouse Electric Corporation

Advanced Industrial Systems Divisions

Engineering Services 1180 Andover Park West Seattle WA 98188 (206) 575 2345

December 15, 1989

P. O. Box 248 Spokane, Wa. 99210

Attention: Hazardous Waste Manager

0.0-4-----

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9129

Manifest Number 452JE (Westinghouse No. SEE9002)

Your Order 18521-04 Our Order SEFM624

## Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

David E. Neustel/dg David E. Neustel Senior Engineer

DEN/dz Enclosures

cc: Merald Dailey

cc: Westinghouse, Western Region Office, Compton

December 8, 1989

Aptus Environmental Sensces

P O. Box 1328 Colleyvile, KS 67337 (316) 251-6380 (600) 292-2558 FAX (316) 251-7498 Sales FAX (316) 251-1095 Confidential FAX (316) 251-0091 incinerator FAX (316) 251-0089

## APTUS '

## CERTIFICATE OF DISPOSAL

NO. 9129

Empire Hill Service P.O. Box 248 Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APTUS ON APTUS DOCUMENT # 452JE WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 AS OF 11/15/89.

**APTUS** 

EPA ID # KSD980964993

SHERI SANDERS

PCB DOCUMENT ADMINISTRATOR

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Form Approved, OMB No. 2050-0039. Expires 9-30-91

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## **DETAIL REPORT**

PAGE NO. 1

ODERATOR.

Empire Hill Service

P O. Box 248

Sociate VA 99210

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NOE: 509-458-7025 W Onet Echelbarger

GEOR: K2181

**CONTESTORENT** 

Westinghouse

**粉卵** 

1180 Accepter Park Nest

Seattle

EP4 # PHOE: 206-575-25/5

ur Dave Mastal

CCCCE: C9CC2

.03 / 000E0

APT DOC # 452JE

DATE OF REPORT: 12/08/89

DATE CHECKED IN: 01/30/89

DISPOSAL OPTIONS: CEB, OIL /FAR, TRA/EPA

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HOLD BACK: 10 1

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WHIFESTS OH JOB NUMBER 003050

62.E. TORE



Westinghouse Electric Corporation

Advanced Industrial Systems Divisions Engineering Services 1180 Andover Park West Seattle WA 98188 (206) 575 2345

January 12, 1990

Empire Hill Service P. O. Box 248 Spokane, Wa. 99210

Attention: Hazardous Waste Manager

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9509

Manifest Number 981 HE (Westinghouse No. 88052)

Your Order 18521-04 Our Order SEFM624

## Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

David E. Neustel Senior Engineer

Varid E. newstel /2

DEN/dz Enclosures

cc: Eileen Hiramoto

c: Westinghouse, Western Region Office, Compton

January 4, 1990

Aptus Environmental Services

P.O. Box 1328 Colleyville, KS 67337 (316) 251-6380 (800) 292-2558 FAX (316) 251-7498 Sales FAX (316) 251-1095 Contidental FAX (316) 251-0091 Incinerator FAX (316) 251-0089

# **APTUS**

## CERTIFICATE OF DISPOSAL

NO. 9509

Empire Health Service P.O. Box 248 Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APTUS ON APTUS DOCUMENT # 781HE WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 AS OF 12/13/89.

**APTUS** 

EPA ID # KSD980964993

SHERI SANDERS

PCB DOCUMENT ADMINISTRATOR

## Aptus

## DETAIL REPORT

PAGE NO. 1

CENTRAL

Empire Health Service

P D. BOX 248

Spokene

VA 99210

Br 4

ROE: 508-458-7025

Wr. Cott Echelbarger

CCTCE: 1/2191

OHESOON

Westinghouse

1180 Andres Perk Hest

Seattle

#A 98:28

BA #

PACIE: 205-975-2345 Mr. Osve Noustel

COODE: (2002)

JOB / 033050

APT DOC # 781HE

DATE OF REPORT: 01/04/90

DATE CHEDGED IN: 01/26/89

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HOLD BACK: 10 %

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62.E. 784E



## Westinghouse Electric Corporation

## Industry Services Divisions

Engineering Services 1180 Andover Park West Seattle, WA 98188 (206) 575-2345

February 13, 1989

Empire Health Service P.O. Box 248 Spokane, Wa. 99210

Reference:

Uniform Hazardous Waste Manifest No. 781HE

Your Order No. 18521-04 Our Order No. SEEM624

## Gentlemen:

Please find enclosed the original Uniform Hazardous Waste Manifest for waste material removed from your site by Westinghouse.

As is required, please keep this document for your records.

Should further assistance be required, feel free to contact us any time. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

K. G. Hammond, Manager Seattle Operations Center

KGH/dz Enclosure

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A	U,	NIF	ORM HAZARDOUS 1. Generator's US EPA ID	No. Manifest Doc	2. Page 1 Information in the shaded areas of 1 is not required by Federal law.						
	3.		rator's Name and Mailing Address Empire Hil	l Service	A. State Manifest Document Number						
Ш		P.O. Box 248 Spakane, WA 99210 BiState G									
I	4.	4. Generator's Phone ( 509 ) 458-7025									
П		Trans	sporter 1 Company Name	6. US EPA ID Numbe	C. IState Transporters ID						
П	7	Apt		M N D 9 8 U 7 9 1 8. USEPAID Numbe	D. Transporter's Phone #612-469-3475  E.: State Transporter's ID						
I	••				F. Transporter's Phone						
Ħ	9.	Desig Apt	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	10. US EPA ID Numbe	G. State Facility's ID						
		-	D. Box 1328/Hwy. 169 North		H. Facility's Phone XIX						
		Coi	feyville, KS 67337				316-251-6380				
Ġ	11.	US I	OOT Description (Including Proper Shipping Name, Haz	ard Class and ID Number)	12. Conta No.	Type	13. Total Quantity	Unit WVVol	Waste No.		
E N	a.	P.O.	WASTE HAZARDOUS SUBSTANCE, SOLID	NOS			Est'		A STATE OF THE PARTY		
R			(POLYCHLORINATED BIPHENYLS) ORM-			См	8:150	P	种的		
î	b.										
R		ΚQ	WASTE HAZARDOUS SUBSTANCE, LIQUI (POLYCHLORINATED BIPHENYLS) ORM-	-	4	Ьм	165	G			
1	C.	Т	c p						Sunday EM		
		RQ	WASTE HAZARDOUS SUBSTANCE, LIQUINO.S., (POLYCHLORINATED BIPHENY	· · · · · · · · · · · · · · · · · · ·	Din	50	P				
П	đ.	$\vdash$	· · · · · · · · · · · · · · · · · · ·	20, 0111 2 111 7200		1.00.11			9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
						! 			Property of		
	J. Additional Descriptions for Materials Listed Above a. transformer drained of askarel b. drums of askarel C. drum of Debris  15. Special Handling Instructions and Additional Information See Enclosed Contingency Plan  K. Handling Codes for Wastes Listed Above  Debris  W. Handling Codes for Wastes Listed Above										
$\ $	1	Work Order #33050 Spokane, WA 99210									
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway										
	according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
IJ	Printed/Typed Name Signature								Month Day Year		
V	1100								1 1481		
	-		inted/Typed Name	Signature	() 17		<del>. ••</del>	Month Day Year			
E & 2.01E	Charles Petty			Charles	1		1/14/89				
	1	18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature							Month Day Year		
Ė	ER										
		19. Discrepancy Indication Space Discrepancy OK by Neil Peterson per phone 01/30/89									
12		A. 1 CM drained of askeral = 3,710 lbs $\times$ .30 = 1113 B. 4 DMS of askeral = 159 gls $\times$ 12.5 $\times$ .30 = 596.25									
		B. 4 DMS of askeral = 159 gls × 12.5 × 30 = 5.76.25  C. 1 DM of Debris = 90 1bs									
;	֓֡֞֜֜֜֜֜֜֡֡֡֓֜֜֜֜֜֜֜֜֡֡֡֡֓֜֜֜֡֡	Printed/Typed Name Signature									
			LAUID (BOK		juro	<u>ell</u>	YOK.		01 K6 87		

· /		٨										
PURCHASE	REQUISITION	Empire Health S	Servio	es —		PURCH	ASING US	SE ONLY	,			
A) DEACONESS MEDICA  [1] EMPIRE HEALTH S  [2] ST. LUKE'S MEMORIA  [3] CARE FIRST HEALTH  [4] ST. LUKE'S EXTEN  DEPARTMENT NAME  DEPARTMENT NUMB  EXPENSE CODE  DATEMay  SUGGESTED SOURC	AL CENTER	DEPARTMENT REPRESENTATIVE  DIVISION DIRECTOR APPROVAL  EXECUTIVE OR VICE PRESIDENT APPR	CASTO TO THE COLUMN TO THE COL	Jineon Sahr	BID NU DATE F REQUI PLACE DISCO	JMBER JMBER PLACED RED DELIVE D WITH UNT TERMS	18521-0 6 7 ERY DAYE 1814 (A/X)	10 pt/	0-89			
PHONE NUMBER (2	REQUISITIONS			S WITHOUT THE APPROPRIATE  BE RETURNED TO REQUESTOR.			VENDOR NAME UCSTINA POWSE Floris 941					
PRODUCT NUMBER	DESCRIPTION		OTY	ORDER	ESTIMATED PRICE	UNIT PRICE	TOTAL PRICE	DEPARTMENT NUMBER	SUB			
inst	e three (3) PCB transform	•										
	d 4-7-88. not to exceed \$122,900.00	hand on these	ļ. <u></u>									
	rate weekend outages.	based on three						-	•••			
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procurement, Pui Co	lescription, manufacturer, and possible source of  chasing Copy — WHITE thirmston PO. Copy — CANARY questing Department Copy — PINK			TAX	IN CHASING	FREIGHT	TOTAL		DE			

WORK COPY PURCHASE ORDER

ACILITY ID: 04 DEACONESS MEDICAL CENTER

P.D. TYPE: MANUAL

.D. NUMBER:0018521-04 P.D. DATE: 05/31/88

P.O. STATUS: COMPLETE

UENDOR: 00941

īΤ

WESTINGHOUSE ELECTRIC CORP

CUSTOMER #:

E 2025 TRENT

SPOKANE

WA 99202-

CONTACT NAME AND PHONE: LARRY

509 535-3082

PAYMENT TERMS: NET 30 DAYS

FREIGHT TERMS: WILL CALL

ORD METHADIPH CREETS AYIDG

CONFIRM BY:DC REGRO DEL:03/03/89

\*\* P.O. DETAIL \*\*

G/L CODE GTY U/M VENDOR CATEG RECU COST EXT COST ITEM # ------40956.6700 122900.0100 8282-7710 38 100600 3 EA. 0000 RWV. 3 PCB TRANSFORMERS, PRUD & INSTL 3 SILICONE TRANSFORMER RECUD 06/01/38 3

DELIVER TO: PLANT ENGINEERING PER PROPOSAL DATED 4-7-88 COST NOT TO EXCEED 122900.30 BASED ON THREE SEPARATE WEEKEND OUTAGES COMPLEATION APPX 40 WEEKS OR 03/03/89

## II. <u>Description of Project</u>

This project covers the turnkey removal, disposal and replacement of three PCB type transformers presently in service at Deaconess Medical Center, Spokane, Wa. The replacement silicone filled transformers shall be designed/installed to fit between existing H.V. and L.V. air terminal chambers.

All PCB fluids and materials are to be handled, transported and disposed in accordance with current local, State and Federal regulations. Each transformer will have its PCB fluid pumped to D.O.T. drums prior to rigging-out.

Installation is scheduled for the fall 1988 whereby three closely coordinated shutdowns will be planned between Deaconess Medical Center and Westinghouse Engineering Service. Each PCB transformer will be removed and a new silicone unit installed during successive weekday nighttime hours. As an example: one unit Tuesday evening, one unit Wednesday evening, and the last unit Thursday evening. An alternate plan will be to remove and replace each transformer on separate nighttime weekend outages (3).

The PCB transformers to be removed on this project are identified as follows:

- 1. Phase Two Transformer 2000KVA 315 Gallons 11,800 lbs. total wt.
- Northwing Transformer
   500KVA 218 Gallons 8,050 lbs. total wt.
- Southwing Transformer (roof vault)
   500KVA 140 Gallons 5,100 lbs. total wt.

The replacement transformers shall have KVA ratings identical to the PCB units being removed and shall be indoor silicone filled.

## III. Westinghouse Responsibilities

Specific responsibilities include the following items which are based on information obtained during site inspections and meetings with  $\mathbf{D}_{\mathbf{e}\mathbf{a}}$  coness Medical Center representatives.

- III.1 Turnkey project management to schedule and coordinate all activities between customer representatives and Westinghouse or its subcontractors.
- III.2 Attend pre-shutdown meeting (1 day) to discuss details and procedures to be used by Westinghouse. Discussions to include review of customer safety requirements and on site spill control measures to be used by Westinghouse.
- III.3 Engineering to design replacement transformers to fit between existing high and low voltage air terminal chambers.
- III.4 Furnish three replacement transformers in accordance with technical specifications Section V.
- III.5 Provide labor and equipment to inspect and test replacement transformers after delivery to verify condition and design criteria prior to changeout. Westinghouse will provide off site storage of transformers in the Spokane area.
- III.6 Temporary power for PCB pumps, hand tools and lighting during the shutdown.
- III.7 Provide labor, materials and equipment to disconnect existing transformer, drain PCB fluids, remove drained transformer and transport to approved facility for flushing in accordance with EPA regulations.
- III.8 Provide labor, materials and equipment to install replacement transformer, test, and witness energization.
- III.9 Transportation and disposal of flushed transformer carcass and other contaminated solids to EPA approved chemical waste landfill.
- III. 10 Transportation of PCB fluids to EPA approved incineration facility, Pyrochem, for disposal in accordance with EPA regulations.
- III.11 Provide assistance in obtaining required permits and manifests necessary for the project.
- III. 12 Provide certificate of destruction to verify and document hazardous waste disposal.
- III.13 Provide final project report including new equipment instruction books, test data and drawings for each new transformer.

#### IV. Customer Responsibilities

The nature of this project is to provide "turnkey" project management by Westinghouse. Hence Deaconess Medical Center shall have minimum responsibilities as listed below:

- IV.1 Qualified representative to work with Westinghouse project engineer for coordination purposes before and during shutdown.
- IV.2 Free and clear access to equipment during shutdown activity. Estimated duration: 12 hours
- IV.3 Copies of all available drawings and instruction books pertaining to facilities and equipment involved in this project.
- IV.4 Information pertaining to Deaconess Medical Center's health and safety policies.
- IV.5 Qualified personnel to de-energize (energize) and "tag-out" feeders serving equipment covered in this proposl.

#### V. <u>Technical Specifications</u>

#### V.1 Technical Specifications - Field Testing

#### Mechanical Checks -Liquid Filled Transformers

- 1. Inspect transformer for proper liquid level in tanks, compartments, and bushings. Inspect gasketed items, cooling assemblies, terminal and tap chambers for signs of leakage. Note gas pressure as positive vacuum or zero.
- Inspect bushings for chipped or cracked porcelain and oil leakage (if applicable).
- 3. Check external bolted electrical connections and grounding for tightness.

### Electrical Checks - Liquid Filled Transformers

- 1. Sample dielectric fluid from tank. Analyze each sample to insure adequate insulation and chemical properties, as indicated.
  - a. Dielectric Strength

ASTM D877 or D1816

- Check insulation resistance (winding to winding, and each winding to ground) with a DC megohmmeter.
- 3. Check turns ratio in all tap positions.
- 4. Perform power factor tests to winding and each winding to ground.
- 5. Check auxiliary devices for proper operation.

#### V.2 Technical Specifications - Transformer Factory Tests

The following standard tests will be made on the transformers. The tests will be made in accordance with the latest revision of ANSI Code C57.12.91 where applicable.

- Resistance measurements of all windings on the rated voltage connection of each unit and at the tap extremes of one unit only of a given rating on an order.
- Ratio tests on the rated voltage connection and on all tap connections.
- 3. Polarity and phase-relation tests on the rated voltage connection.
- 4. No-load loss and excitation current at rated voltage on the rated voltage connection.
- 5. Impedance and load loss at rated current on the rated voltage connection of each unit and on the tap extremes of one unit only of given rating on an order.
- 6. Applied potential tests.
- Induced potential tests.

The following design tests are made on a sufficient number of transformers and ratings to demonstrate compliance with these standards. Design tests are not repeated unless the design of the transformer is changed so as to modify the reliability of predicted results.

- 1. Audible sound level
- 2. Temperature rise
- 3. Impulse

## WESTINGHOUSE ENGINEERING SERVICE PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 1

CUSTOMER DESIGNATION: "PHASE TWO TRANSFORMER"

1 - 2000KVA POWER CENTER TRANSFORMER, 3 PHASE, 60 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS: Z000KVA AT 65° C RISE SELF COOLED

ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

"H" WINDING

"X" WINDING

**VOLTAGE:** 

13.2 KU

480Y/277

BIL:

95 KV

30 KV

CONNECTION:

OELTA

WYE

TAPS:

2 - 28 % FCAN/FCBN

TERMINATIONS:

Z BAR FLANGE

Z BAR FLANGE

COOLING CLASS

OA/FFA (FUTURE FORCED AIR)

IMPEDANCE:

5.75 % ON A BASE OF 2000KVA AND SUBJECT TO

STANDARD TOLERANCE OF ± 7.5 %

TAP CHANGER:

DE-EMERGIZED TAP CHANGER FOR CHANGING TAPS

UNDER NO LOAD CONDITIONS

OTHER FEATURES:

DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT AND SPACING AS ORINGINAL PCB TRANSF.

ALUMINUM H.V. AND L.V. WINDINGS

## . WESTINGHOUSE ENGINEERING SERVICE PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 2

CUSTOMER DESIGNATION: "NORTH WING TRANSFORMER"

1 - 500 KVA POUER CENTER TRANSFORMER, 3 PHASE, 50 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS:

500 KVA AT 65° C RISE SELF COOLED

ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

"H" WINDING

"X" WINDING

VOLTAGE:

13.2 KV

208Y/120

BIL:

95 KV

30 KU

CONNECTION:

DELTA

WYE

TAPS:

2 - 21 % FCAN/FCGN

TERMINATIONS:

Z BAR FLANGE

Z BAR FLANGE

CCOLING CLASS

OA AND FFA IF ITS A NO CHARGE ADDITION

IMPEDANCE:

(STD)% ON A BASE OF 500 KVA AND SUBJECT TO

STANDARD TOLERANCE OF ± 7.5 %

TAP CHANGER:

DE-EMERGIZED TAP CHANGER FOR CHANGING TAPS

UNDER NO LOAD CONDITIONS

OTHER FEATURES:

DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT

AND SPACING AS ORINGINAL PCB TRANSF.

ALUMINUM H.V. AND L.V. WINDINGS

#### WESTINGHOUSE ENGINEERING SERVICE PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 3

CUSTOMER DESIGNATION: "SOUTH WING TRANSFORMER"

500 KVA POWER CENTER TRANSFORMER, 3 PHASE, 60 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS:

500 KVA AT 65° C RISE SELF COOLED

ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

"H" WINDING

"X" WINDING

**VOLTAGE:** 

13.2 KU

2087/120

BIL:

95 KU

30 KU

CONNECTION:

DELTA

WYE

TAPS:

2 - 25 % FCAN/FCBN

TERMINATIONS: Z BAR FLANGE

Z BAR FLANGE

CCOLING CLASS

OA AND FFA IF ITS A NO CHARGE ADDITION

IMPEDANCE:

(STO)% ON A BASE OF 500 KVA AND SUBJECT TO

STANDARD TOLERANCE OF ± 7.5 %

TAP CHANGER:

DE-ENERGIZED TAP CHANGER FOR CHANGING TAPS

UNCER NO LOAD CONDITIONS

OTHER FEATURES:

DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT

AND SPACING AS ORINGINAL PCB TRANSF.

ALUMINUM H.V. AND L.V. WINDINGS

1987 PCB
Annual Report
Deaconess Medical Center
W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dieleutric fluid of each transformer. See attached related documents. The transformers were inspected in May of 1987 by the General Electric Company for the purpose of estimating the costs of the retrofitting and disposal of the transformers containing PCB's.

#### Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

#### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

#### Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

#### Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne Safety Manager



QUOTATIOIO	437A00012	_
CONTRACT NO		
DATE	June 2, 1987	_

## APPARATUS AND ENGINEERING SERVICES

NOTICE: This quotation is vold unless accepted within 30 days from date hereof and is subject to change upon notice prior to acceptance.

Mr. Richard N. Mabboit
DEACONESS HOSPITAL
Post Office Box 248
Spokane, WA 99210-0248

Work Description, Completion, Price — General Electric Company (Company) agrees as follows:

The Industry Services Department (ISD) of the General Electric Company is pleased to offer the following proposal for PCB transformer removal, disposal, and installation of new transformers (retrofit).

#### ITEM(S) TO BE RETROFIT AND DISPOSED:

- Item 1: One (1) 2000 kVA transformer containing 315 gallons of Askarel (Chiller Building)
- Item 2: One (1) 500 kVA transformer containing 218 gallons of Askarel (North Wing)

Definition — Complete Installation/Maintenance Service

Complete Installation/Maintenance Service can consist of a combination of planning, management, labor, tools, and miscellaneous materials to install, assemble, connect, interconnect, and start-up and/or maintain the equipment involved.

This Contract is subject to STANDARD CONDITIONS FOR SERVICES on reverse side

eral electric company	Accepted:	19				
Kenneth C. Kadera Sales Engineer Industry Services Department GENERAL ELECTRIC COMPANY 2929 N.W. 29th Avenue Portland, Oregon 97210	bcc:	J. Hamer - A&ES/Portland L. Kiser - A&ES/Portland FSR J. Pfrimmer - A&ES/Walnut Creek S. Porter - PCB Facility/Portland T. McGibbon - A&ES/Portland				

KCK/PFLB KCK/CF-FSR MERAL @ ELECTRIC

PAGE NO.	2
QUOTATION NO	437AUUU12
CONTRACT NO	
DATE	June 2, 1987

#### ITEM(S) TO BE RETROFIT AND DISPOSED (cont.)

Item 4: One (1) 300 kVA transformer containing 117 gallons of Askarel (Sherwood Building)

Item 5: One (1) 500 kVA trnsformer containing 140 gallons of Askarel (Roof)

#### WORK DESCRIPTION: ISD shall:

- Dispose of the above listed PCB item(s) per Section 40CFR761 of the EPA Federal Regulations. All technical direction, material and labor to perform the work scope herein is inclusive in this proposal. The General Electric Company PCB facility at N.W. Industrial in Portland, Oregon will be utilized for the applicable portions of this proposal.
- 2. New equipment will be installed per the following specifications:

Five (5) Silicone-filled transformers with the following description:

Rating and voltage: Same as units being replaced

Impedance:

5.75%

HV BIL:

95 KV

LV BIL: 30 KV

Taps and accessories as described in GEA-9878 (enclosed)

Note: Replacement for Items 3 and 4 will also have a high voltage air

switch to replace the existing oil switches.

Present shipment estimate: Thirteen (13) weeks. FOB Rome, Georgia

Print mailing estimate: Six (6) weeks

Actual shipment will depend on backlog existing at the time order is received at factory. If prints for approval are required, add six (6) weeks to the shipment estimate. All standard terms and conditions of sale in Handbook 5521, pages 1 and 2 apply, except price clause 10 for order within sixty (60) days.

- 3. Provide job management, engineering services, labor, tools, materials and equipment to retrofit five (5) PCB filled transformers.
  - A. Job management to schedule and organize on-site work with Customer and General Electric.
  - B. Special engineering services to specify, requisition and expedite delivery of the new non-PCB transformers.

3890 Mowry Ave. Ste A, Fremont CA

P.O. Box 4724

94538

December 31, 1987

Akron, Ohio 44310 Phone: (216) 633-2666 Toll Free: (800) 321-9580

DEACONESS HOSPITAL West 800 Fifth Ave. Spokane WA 99210

Cust#11092000 (509) 624-0171

Attn: Chet Echelbarger

OHIO EPA ID#OH-D044946127

#### TRANSFORMER DISPOSAL & RETROFIT QUOTATION

#2270

We are pleased to submit this quotation for your consideration and approval. For information, or to place your order, please contact Steve Everett.

TC#	MFG.	Serial #	<u>Gall</u> .	PPM/PCB	<u>Approx.Size</u>
1 2	ITE ITE	20982-A01 20982-D01	315 218	Askarel Askarel	8'x8'x7' 4'x7'x7'
3	ITE	20982-B01	140	Askarel	5'x6'x7'
4	ITE	20136 A01	117	Askarel	4'x6'x7'
5	GE	G854825	100	Askarel	4'x10'x7'

- S.D. Myers, Inc. will supply all labor, tools, and material to disconnect, dispose, and reconnect.
- S.D. Myers, Inc. will supply rigging for removal and replacement of transformers.
- All transformers will be replaced with new, silicone-filled units with ratings and accessories matched to the transformers they replace.
- If work can be scheduled for five consecutive days, the total price for work described above will be . . . . . . . . . . . \$180,900:00

If work must be scheduled for five consecutive weekends, the total price for work described above will be . . . . . . . \$206,595.00

#### TERMS & CONDITIONS

Applicable taxes are in addition to quoted price.

This proposal is valid for 60 days.

\*Additional Terms and Conditions Attached\*



QUOTATION NO.	437A00012	
CONTRACT NO		
DATE	June 2, 1987	

## APPARATUS AND ENGINEERING SERVICES

NOTICE: This quotation is void unless accepted within 30 days from date hereof end is subject to change upon notice prior to acceptance.

то

Mr. Richard N. Mabboit DEACONESS HOSPITAL Post Office Box 248

Spokane, WA

99210-0248

I. Work Description, Completion, Price - General Electric Company (Company) agrees as follows:

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- Item 1: One (1) 2000 kVA transformer containing 315 gallons of Askarel (Chiller Building)
- Item 2: One (1) 500 kVA transformer containing 218 gallons of Askarel (North Wing)
- Item 3: One (1) 225 kVA transformer containing 100 gallons of Askarel (Sherwood Building)

#### II. Definition - Complete Installation/Maintenance Service

Complete Installation/Maintenance Service can consist of a combination of planning, management, labor, tools, and miscellaneous materials to move, install, assemble, connect, interconnect, and start-up and/or maintain the equipment involved.

This Contract is subject to STANDARD CONDITIONS FOR SERVICES on reverse side

GENERAL E	LECTRIC COMPANY	Accepted:	19
4	For C Face		
Ву	Kenneth C. Kadera Sales Engineer		(Purchaser)
Title	Industry Services Department GENERAL ELECTRIC COMPANY	Ву	
Address	2929 N.W. 29th Avenue Portland, Oregon 97210		(Title)

Two copies of this Contract are provided. Please execute and return one copy to General Electric Company at the above address.

PELECTRIC

PAGE NO.	2					
QUOTATION NO	437AU0012					
CONTRACT NO.						
DATE	June 2, 1987					

### TIEN(S) TO BE RETROFIT AND DISPOSED (cont.)

Item 4: One (1) 300 kVA transformer containing 117 gailons of Askarel (Sherwood Building)

Item 5: One (1) 500 kVA trnsformer containing 140 gallons of Askarel (Roof)

#### WORK DESCRIPTION: ISD shall:

- Dispose of the above listed PCB item(s) per Section 40CFR761 of the EPA Federal Regulations. All technical direction, material and labor to perform the work scope herein is inclusive in this proposal. The General Electric Company PCB facility at N.W. Industrial in Portland, Oregon will be utilized for the applicable portions of this proposal.
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Five (5) Silicone-filled transformers with the following description:

Rating and voltage: Same as units being replaced

Impedance:

5.75%

HV BIL: 95 KV

LV BIL: 30 KY

Taps and accessories as described in GEA-9878 (enclosed)

Note: Replacement for Items 3 and 4 will also have a high voltage air

switch to replace the existing oil switches.

Present shipment estimate: Thirteen (13) weeks. FOB Rome, Georgia

Print mailing estimate: Six (6) weeks

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- Provide job management, engineering services, labor, tools, materials and equipment to retrofit five (5) PCB filled transformers.
  - A. Job management to schedule and organize on-site work with Customer and General Electric.
  - B. Special engineering services to specify, requisition and expedite delivery of the new non-PCB transformers.



## DEACONESS MEDICAL CENTER SPOKANE

March 6, 1986

Richard Sweetland
Assistant Fire Chief.
Spokane Fire Department
W. 44 Riverside
Spokane, WA 99201

In response to a recent E.P.A. regulation, this letter is to inform you and serve as a registration of P.C.B. oil filled transformers in Deaconess Medical Center.

The locations are as follows:

(1) North Wing basement.

(1) Chiller building, upper deck.

(2) Sherwood building; courtyard area.

had N. Mable

(1) South wing roof.

We would be pleased to have your representative inspect the areas aforementioned. If you have any further questions, please call me.

Richard N. Mabbott

Director of Physical Plant

RNM/baw

3890 NOWRY AVENUE, SUITE A, FREMONT, CA,

OTHER

9.0

DATE PRINTED

CUST. DEACONESS HOSPITAL SUB NAME CHILLER BLDG.

CITY UNIT #

CITY SPOKANE NA

ID# 11092000

LOCATION

INDOOR /CROUND

TE PRINTED FLOOR 02

MFG. DATE S/N KVA PRI	20982-A01 2,000 13,200	NAMEPLATE DATA EDUIP. TYPE TRANS CLASS IMPEDENCE PHASE/CYCLE LIQUID TYPE	TRANSFORMER DA-FA 3/60 ASKAREL	RADIATORS FANS H20 COOLED OIL PUMPS TOP FPV		CONSERVATOR	NO NO SIDE
SEC	480	GAL LICUID	915	BOTTOM FPV	1.00 INCH	OTHER ACCESS	

VISUAL INSPECTION

PAINT CONDITION

CODD

LEAKS SEEPAGE LT AT BSV

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE 1242

1254

1260 AROCLOR C

TOTAL

**FIELD SERVICE** 

COLOR LABEL

CLASS

LIQUID SCREEN TEST DATA

DATE 12/00/79	SERVICE	LEVEL NORMAL	TEMP 40 C	P/V 1.0-	ACID . 015	AC	IFT N/A	27	IEL QU	COLOR PALE YELD AC	SP. GF 1.520	AC AC	VISUAL ELEAR	AC	SEDIMENT NONE AL
8/22/83		NORMAL	49 C	0.2	.010	AC	N/A	41	AC	PALE YELD AC	1.500	AC "	CLEAR	AC	NONE A
1/05/85	0.0	NORMAL	29 €	1.0-	.015	AC	N/A			PALE YELD AC	1.500	AC	CLEAR	AC	NONE AC
1/10/86		NORMAL	34 C	0.0	.015	AC	N/A			PALE YELS AC	1.500	AC	CLEAR	AC	NONE A

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

CARBON CARBON TOTAL TOTAL

DATE SERVICE HYDROGEN DXYGEN NITROGEN METHANE MONOXIDE DIDXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE. GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

**TRANSFORMER CONSULTANTS** 3890 NOWRY AVENUE, SUITE A, FRENDNT, CA/ A DIVISION OF S.D. MYERS INC. CUST DEACONESS HOSPITAL 1109 SUB NAME CHILLER BLDG. ITE 2,000 13,200 MFG PRIMARY KVA UNIT # 20982-A01 **480** S/N SECONDARY MARL PISCHER DESTINATIONSHORE CONTENT/EXPRESSED IN PPIN MOISTURE PER GENT THE CONT nstansing which are well and the second TEMPERALURE BEAT IN 3705705 细切。晚 10.10 COMMENTS ICP/METALS-IN-OIL/EXPRESSED IN PPM DATE SERVICE ALUMINUM IRON ZINC COPPER LEAD SILVER TIN MOLYBOENUM 1/05/85 .360 .070 1.660 .080 .130 .140 NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH ANOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE WHICH FURTHER EVALUATIONS WILL REST. CONNENT - RETEST 1 YEAR. LIQUID POWER FACTOR THE POWER FACTOR OF THE DIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS 是基本的自然的自然和自然和自然

KEY TO ABBREVIATIONS: AC - ACCEPTABLE QU - QUESTIONABLE UN - UNACCEPTABLE

CADI

3890 HOWRY AVENUE, SUITE A, FRENCHT, CA 57538

AC

AC

AC

AC

CUST. DEACONESS HOSPITAL SUB. NAME NORTH WING VAULT

CITY

SPOKANE WA

UNIT#

OTHER

1D# 11092000

LOCATION

	VAIC PRINTED	
/ GROUND	FLOOR 02	

)	MFG. DATE I S/N KVA PRI SEC		NAMEPLATE DATA  EQUIP. TYPE  TRANS CLASS  IMPEDENCE  PHASE/CYCLE  LIQUID TYPE  GAL LIQUID	TRANSFORMER OA 5.44% 3/60 ASKAREL 218		RADIATOR FANS H20 COOR OIL PUME TOP FPV BOTTOM	LEO PS	ADDIT YES NO NO NO 1.00 II	NCH NCH	EQUIPMEN CONSERVATOR TAP CHANGER BUSHING LOC RECLAIMER POWER V/A OTHER ACCESS	T NO NO SIDE	
	PAINT	CONDITION	VISUAL INSPECTION GOOD LEAKS MORE	•	1/2	DATE OF SERVICE		CONTE	NT / EX			//

**FIELD SERVICE** 

COLOR LABEL

LIQUID SCREEN TEST DATA

SEDIMENT DATE SERVICE LEVEL TEMP ACID DIEL COLOR VISUAL 12/00/79 NORHAL .050 AC N/A 33 AC PALE YELD AC 1.520 AC CLEAR AC 40 C PALE YELD AC 8/22/83 HIGH 76 C .010 AC N/A 43 AC 1.550 AC CLEAR AC NONE 1/05/85 HIGH 61 C .035 PALE YELD AC CLEAR AC AC N/A 1.500 AC NONE 0.0 HIGH PALE YELO AC 1/10/86 74 C . 025 AC N/A 1.500 AC CLEAR AC NONE

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

#### GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

and the second second second CARBON CARBON TOTAL TOTAL DATE SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE DIOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 HOURY AVENUE, SUITE A, FRENONT, CA 94538

13,200

ID# 11092

CADI

CUST DEACONESS HOSPITAL

ITE MFG 20982-001

S/N

KVA

500

PRIMARY SECONDARY

SUB NAME NORTH WING VAULT

SATURATION

KARL FISCHER TESTINGPROISTURE CONTENT/EXPRESSEUTH FPM **PER CENT** 

PER CHAT TEMPERATURE

4. \$75 1 A. P. T. T. T.

1/15/85 1114786

ICP/METALS-IN-OIL/EXPRESSED IN PPM

MOLYBDENUM COPPER LEAD ALUMINUM **IRON** ZINC DATE SERVICE .270 ND .400 .210 3.490 .140 1/05/85 ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN DROER TO DETERHINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECONNEND RETESTING THIS UNIT IN 6 HONTHS TO NOTE ANY INCREASES.

LIQUID POWER FACTOR

00 C DATE SERVICE 

THE POWER FACTOR OF THE DIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

\* TEST IN EVALUATING IN-SERVICE AND TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

3890 MOWRY AVENUE, SUITE A, FREMONT, C

1/21/

CUST. DEACONESS HOSPITAL SUB.

SPEKANE NA

11092000

		F114	DI WATER DIE		10 #	777	DATE PRINTED
. NAME	SOUTH WING ROOF	UNIT#	ROOF 6TH FLOOR	OTHER	LOCATION	INDOOR /CROUN	
ACT HE MET WHILE A	MARCHAN AND AND ASSESSMENT AND ASSESSMENT	DO STANDARDO	Principal Annual State of the S	AND STATE OF THE PARTY OF THE P	and the second of the second o		

MFG. DATE S/N KVA PRI SEC	ITE MFG. 20982-801 500 13,200 208	NAMEPLATE DATA  EQUIP. TYPE  TRANS CLASS  IMPEDENCE  PHASE/CYCLE  LIQUID TYPE  GAL LIQUID	TRANSFORMER DA 5.14% 3/60 ASKAREL 140	RADIATORS FANS H20 COOLED OIL PUMPS TOP FPV BDTTOM FPV	NO 1.00 INCH 1.00 INCH	CONSERVATOR TAP CHANGER BUSHING LOC RECLAIMER POWER V/A OTHER ACCESS	NO NO SIDE ENCLOSED
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**VISUAL INSPECTION** 

PAINT CONDITION

6000

LEAKS NONE

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE

1242 AROCLOR

1260 AROCLOR

TOTAL CONTENT

FIELD SERVICE

COLOR LABEL

LIQUID SCREEN TEST DATA

DATE SE 12/00/79	ERVICE LEVEL	TEMP 40 C	P/V 1.0-	ACID . 015	AC	IFT N/A	DIEL 35 A		COLOR YELO AI	SP. GF C 1.520	AC	VISUAL CLEAR	AC	SEDIMENT NONE	AC
8/22/83	NORNAL	65 C	0.0	.010	AC	N/A	37 A	C PALE	YELD A	C 1.500	AC	CLEAR	AC	NONE	AC
1/05/85	NORHAL	38 C	0.5-	. 030	AC	N/A			YELO A		AC	CLEAR	AC	NONE	AC
1/10/86	NORHAL	40 C		.050	AC	N/A		PALE	YELD A	C 1.500	AC	CLEAR	AC	NONE	AC

CONHENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

CARBON TOTAL TOTAL DATE SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE DIOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

TRANSFORMER CONSULTANTS, 3890 HOWRY AVENUE, SUITE A, FREHONT, C/ A DIVISION OF S.D. MYERS INC.

DEACONESS HOSPITAL CUST

MFG.

20982-B01

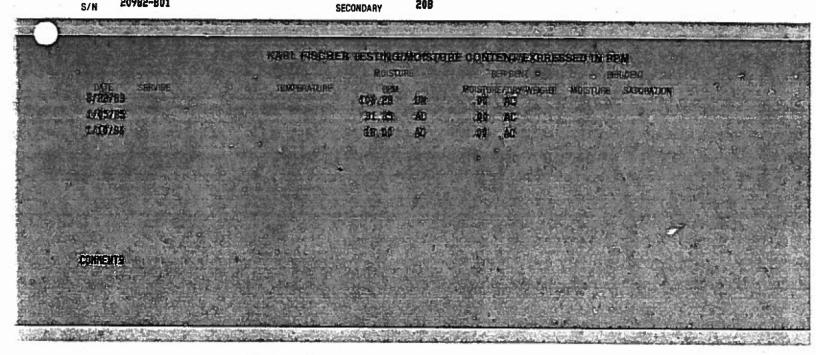
KVA

PRIMARY

13,200

SUB NAME SOUTH WING ROOF

ID# 1109200 UNIT #ROOF 6TH FLOOR



ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE SERVICE \* ALUMINUM HON ZINC COPPER LEAD MOLYBDERUM CADMIUI 1/05/85 . 090 2.060 .370 .120 .240 ИD

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED ANGUNT OF ZN - . IN ORDER TO DETERMINE IF SIGNIFICANT NETALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

# LIQUID POWER FACTOR THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

3890 NOWRY AVENUE, SUITE A. FRENDNT, CO

0004

CUST. DEACONESS HOSPITAL SUB. NAME SHERWOOD VAULT

SPOKANE WA CITY GREY UNIT

UNIT#

OTHER

ID# 11092000

LOCATION

DATE PRINTED

1/21/86

MFG. ITE  DATE MFG. S/N 20136 A01 KVA 300 PRI 13,800 SEC 208	NAMEPLATE DATA  EQUIP. TYPE  TRANS CLASS  IMPEDENCE  PHASE/CYCLE  LIQUID TYPE  GAL LIQUID	TRANSFORMER DA 5.00% 9/60 ASKAREL 117	RADIATORS FANS H2D COOLED OIL PUMPS TOP FPV BOTTOM FPV	ADDITIONAL YES ND ND ND 1.00 INCH 1.00 INCH	EQUIPMENT CONSERVATOR TAP CHANGER BUSHING LOC RECLAIMER POWER V/A OTHER ACCESS	ND ND SIDE
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**VISUAL INSPECTION** 

PAINT CONDITION

LEAKS NONE

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE

1242 AROCLOR

1254 AROCLOR

1260 AROCLOR CONTENT

INDOOR /GROUND

TOTAL

**FIELD SERVICE** 

COLOR LABEL

CLASS

LIQUID SCREEN TEST DATA

DATE	SERVICE	LEVEL	TEMP	P/V	ACID		IFT	DI	EL		COLOR	ı	SP. GR		VISUAL		SEDIMENT	
12/00/79		<b>LOR</b>	40 C	1.0-	. 025	AC	N/A	36	AC	PAL	E YELO	AC	1.540	AC	CLEAR	AC	NONE	AC
8/22/83		NORMAL	47 E	1.0	.015	AC	N/A	28	ęυ	PAL	E YELO	AC	1.540	AC	CLEAR	AC	NDNE	AC
1/05/85		NORMAL	42 C	0:2	.020	AC	N/A			PAL	E YELO	AC	1.540	AC	CLEAR	AC	NONE	AC
1/10/86		NORMAL	13 C	0.1	.020	AC	N/A			PAL	E YELO	AC	1.540	AC	CLEAR	AC	NONE	AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

CARRON CARBON TOTAL DATE SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE BOIXOIDE GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 HOWRY AVENUE, SUITE A, FRENDNT, CA 94538

CUST DEACONESS HOSPITAL

20136 A01

1/05/85

IRDN

ZINC

2.370

PRIMARY

SECONDARY

13,800 208 SUB NAME SHERWOOD VAULT

UNIT #GREY UNIT

MOLYBDENUM

CADMIUN

ID# 11092000

TANK SERVICE TRANSPORTS TRANSPORTS	Negatuite	AND STORE THE AND STORE THE AND STORE THE AND THE	Alexandra Adams Ad	PREBLI SPORE SCORPON	-9
COMMENTS					

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF → SIGNIFICANT NETALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES

ICP/METALS-IN-OIL/EXPRESSED IN PPM

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DATE SERVI	25 0
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CONTRACTOR OF STREET	
	TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS
TOTAL STREET,	
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Proposition of the Control of the Co	2007 Mill ABOOM LYDING TO A PROPERTY AND A PROPER

3890 HOWRY AVENUE, SUITE A, FRENONT, C

**⊃C** 000

CUST. DEACONESS HOSPITAL
SUB. NAME SHERWOOD VAULT

CITY SPOKANE WA BROWN UNIT

OTHER

ID# 11092000

LOCATION

1538

DATE PRINTED

1/21/8

NAMEPLATE DATA ADDITIONAL EQUIPMENT MFG. G.E. TRANSFORMER YES **EQUIP. TYPE** RADIATORS CONSERVATOR OA. NO NO DATE MFG. TRANS CLASS FANS TAP CHANGER G854825 5.211 NO **SIDE** S/N IMPEDENCE **H20 COOLED BUSHING LOC** 225 3/60 NO KVA PHASE/CYCLE OIL PUMPS RECLAIMER 13,200 **ASKAREL** 1.00 INCH PRI LIQUID TYPE TOP FPV POWER V/A 480 100 1.00 INCH SEC **GAL LIQUID BOTTOM FPV** OTHER ACCESS

**VISUAL INSPECTION** 

6000

PAINT CONDITION

LEAKS NONE

DATE OF

SERVICE

1242 ARDCLOR 1254 Aroclor

1260 TO ARGCLOR CO

INDOOR /GROUND

TOTAL CONTENT

FIELD SERVICE

COLOR LABEL

CLASS

PCB CONTENT / EXPRESSED IN PPM

LIQUID SCREEN TEST DATA

DATE SERVICE LEVEL TEMP P/V ACID 1FT DIEL COLOR SP. GR. VISUAL SEDIMENT 12/00/79 NORMAL AC WTR WHITE AC . 020 N/A 36 AC CLEAR AC AC 1.520 AC NONE 8/22/83 NORHAL 34 C .010 AC 0.2 N/A 50 UN WTR WHITE AC 1.500 AC CLEAR AC NONE AC 1/05/85 MORHAL 33 C 0.2-.010 AC AC N/A WTR WHITE AC 1.500 AC CLEAR AC HONE 1/10/86 NORMAL 39 C 0.2 .010 AC N/A WIR WHITE AC 1.500 AC CLEAR AC NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

CARBON CARBON TOTAL TOTAL

DATE SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE DIOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

TRANSFORMER CONSULTANTS 3890 HOWRY AVENUE, SUITE A, FRENCHT, CA-4538 **JC** 000: A DIVISION OF S.D. MYERS INC. ID# 1109200-DEACONESS HOSPITAL CUST SUB NAME SHERWOOD VAULT UNIT #BROWN UNIT 225 13,200 MFG PRIMARY KVA G854825 480 S/N SECONDARY EFER FISCHER TESTINGANOREURE COMHEND EXPRESSED IN PPIN MOISTURE SEMBLEATURE MOSDHEIDRYWHITH MOSTURE SATURATION B/EB/88 班 (1) TO STUE 30 如如此 COMMENTS ICP/METALS-IN-OIL/EXPRESSED IN PPM DATE SERVICE ALUMINUM HON ZINC COPPER LEAD MOLYBOENUM SILVER TIN CADMIUN 1/05/85 .010 ND .170 050 .110 NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE UPD WHICH FURTHER EVALUATIONS WILL REST. CONNENT - RETEST 1 YEAR. LIQUID POWER FACTOR DATÉ SÉRVICE 25 C 100 C THE POWER FACTOR OF THE DIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

## 1985 PCB Annual Report Deaconess Medical Center W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks. See letter dated 07/12/85.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dieleutric fluid of each transformer. The last fluid test was performed on 01/05/85. See attached related documents.

#### Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

#### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

#### Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

#### Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne Safety Manager

Kickend Suptland July 12, 1985

Aset For Chief

Sink Fire Don't

CHET ECHELBARGER

W. 44 Purs. I.

FROM:

TO:

RICHARD N. MABBOTT

99101 -

SUBJECT: Tour of Electrical Vaults

Chet, as a memo of understanding, this memo is to be a record of our intent and observations during the tour of the electrical vaults containing oil filled transformers with PCB.

- North wing, basement: (1) oil filled transformer, abandoned floor conduit will be filled and sealed with concrete. Combustable material will be removed from vault.
- Chiller bldg.: (1) oil filled transformer, no work required.
- Sherwood bldg.: (2) oil filled transformers, fill existing floor drain that connects to catch basin and seal with concrete. Combustable material will be removed from vault.
- South wing roof: (1) oil filled transformer, fill existing floor drain and seal with concrete.

I would recommend that all storage be removed from electrical vaults with oil filled transformers. Any material that could get PCB oil on it would complicate a clean up operation to the extent that material would probably be thrown away instead of being cleaned up.

Also, all vaults need a good, general cleanup.

n. Mallo

Richard N. Mabbott

RNM/baw

3890 MOURY AVENUE, SUITE A, FREMONT, CA

3/05/1

CUST. DEACONESS HOSPITAL SUB. NAME CHILLER BLDG.

CITY.

UNIT #

SPOKANE WA

OTHER

ID# 11092000

DATE PRINTED

LOCATION FLOOR 02 INDOOR /GROUND

MFG. ITE EQUIP. TYPE DATE MFG. TRANS CLASS 20982-A01 IMPEDENCE

PHASE/CYCLE

LIQUID TYPE GAL LIQUID

TRANSFORMER

3/60 ASKAPEL

315

RADIATORS FANS H20 COOLED

OIL PUMPS

TOP FPV

ND NO КC

YE5

TAP CHANGER **BUSHING LOC** RECLAIMER

POWER V/A

CONSERVATOR

ADDITIONAL EQUIPMENT

240/40

SIDE

NO

NO

BOTTOM FPV 1.00 INCH OTHER ACCESS

VISUAL INSPECTION

PAINT CONDITION G000

2,000

13,200

460

KVA

PRI

SEC

LEAKS VERY LT. SEEPAGE - BSV

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE

1242 AROCLOR

1254 AROCLOR

1260 AROCLOR

TOTAL CONTENT

FIELD SERVICE

COLOR LABEL

CLASS

LIQUID SCREEN TEST DATA

DATE SERVICE LEVEL TEMP P/V ACID IFT 9/22/83 NORMAL 49 C 0.2 .010 AC N/A 1/05/05 NORMAL 29 C 1.5-.015

DIEL 41 AC

COLOR PALE YELD AC PALE YELD AC

SP. GR. 1.500 AC 1.500 AC

VISUAL CLEAR AC CLEAP

SEDIMENT MONE

NONE

ΑC AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE

CARBON

CARBON DIOXIDE

ETHANE ETHYLENE ACETYLENE

TOTAL

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

TRANSFORMER CONSULTANTS
A DIVISION OF S.D. MYERS INC. 3870 HOWRY AVENUE, SUITE A, FREMONT, CA CUST DEACONESS HOSPITAL KVA PRIMARY SUB NAME CHILLER BLDG. 2,000 13,200 UNIT# 20982-A01 S/N SECONDARY 490 KARL FISCHER TESTINGIMOISTURE CONTENTIE PRESSED IN PPIN MOISTURE BER CENT SES CENT DOM SERVICE EPM. DEMPERATURE MEUSTURE DRY-WEIGHT MOISTURE SETURATION a feet ith 2105/85 20 10 60 红胸侧线 ICP/METALS-IN-OIL/EXPRESSED IN PPM DATE ALUMINUM IRON ZINC COPPER LEAD SILVER VANADIUM MOLYBEDUM CADMIUN 1/05/85 .360 .070 1.660 .040 .140 ND NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE UP O WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST & YEAR. LIQUID POWER FACTOR SERVICE

THE POWER FACTOR OF THE BIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFURNERS FOR HAX-LIFE RESULTS

3890 HOWRY AVENUE, SUITE A, FREHONT, CL

JC M

9/05/

CUST. DEACONESS HOSPITAL SUB. NAME NORTH WING VAULT

CITY

UNIT#

SPOKANE WA

OTHER

ID# 11092000

538

DATE PRINTED

UNIED

LOCATION INDOOR /GROUND FLOOR 02

NAMEPLATE DATA ADDITIONAL EQUIPMENT MFG. ITE EQUIP. TYPE TRANSFORMER RADIATORS YES CONSERVATOR NO DATE MFG. TRANS CLASS FANS NO TAP CHANGER NO S/N 20982-D01 IMPEDENCE 5.44% H20 COOLED ЖO **BUSHING LOC** SIDE 500 PHASE/CYCLE OIL PUMPS 3/60 RECLAIMER ОM PRI 13,200 LIQUID TYPE ASXAREL TOP FPV POWER V/A 1.60 INCH 240740 OTHER ACCESS SEC 208 GAL LIQUID 213 BOTTOM FPV 1.00 INCH

VISUAL INSPECTION

PAINT CONDITION

0000

LEAKS NONE

PCB CONTENT / EXPRESSED IN PPM

DATE OF

1242 AROCLOR 1254 AROCLOR 1260 AROCLOR TOTAL CONTENT

**FIELD SERVICE** 

COLOR LABEL

CLASS

LIQUID SCREEN TEST DATA

LEVEL TEMP DATE ACID IFT DIEL COLOR SP. GR. VISUAL SEDIMENT 8/22/23 HIGH 76 C .010 N/A 43 AC ΑC PALE YELD AC 1.550 AC CLEAR AC RONE AC. 1/05/85 HIGH 61 C 0.0 . 035 ΑC N/A PALE YELD AC 1.560 CLEAR SKON AC.

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATECORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE SERVICE HYDROGEN DXYGEN NITROGEN METHANE MONOXIDE DIOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE GAS

THIS TEST IS AN INVALUABLE TOOK USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 MOURY AVENUE, SUITE A, FREMONT, CA

DEACONESS HOSPITAL

13,200 208

SUB NAME NORTH WING VAULT

KVA

S/N 20982-001

SECONDARY

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	新艺术 No. 11 2				医神经性	
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	内面:"生"				结合是国家	7 10 10
<b>经租间的一个股份</b> 通过点		Fr. J. Sa		10 - 3		
<b>等。这种是一种的一种对于一种的</b>		1775	,"你们, <del>"</del>			

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN VANADI	UM MOLYBEDUM	CADMIUM
1/05/85		ND	.210	3.690	.140	.270	ND	KD	.400	.030
				F. 736 (4)			2.00			

ICP/METALS-IN-OIL/EXPRESSED IN PPM

NOTE-THE DISSOLVED NETAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF SIGNIFICANT NETALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO HOTE ANY INCREASES.

	LIQUID POWER FACTOR
DATE SER	25 C 100 C
and the second s	
	THE POWER FACTO OF THE DIL A 25-AND 100 DEGREE'S CELSIUS IS A VER HEANINGFUL
	TEST IN EVALUATING IN-SERVICE AND SERVICE-ACED TRANSFORMERS FOR MAX-LIFE-RESULT
	Service of the servic

3890 HOWRY AVENUE, SUITE A, FREMONT, CA

CUST. DEACONESS HOSPITAL CITY SUB. NAME SOUTH WING ROOF

SPOKANE WA

ROOF 6TH FLOOR

ID# 11092000

DATE PRINTED

LOCATION INDOOR /GROUND 3/05/

NAMEPLATE DATA

MFG. ITE DATE MFG. TRANS CLASS

S/N 20782-801 KVA 500 PRI 13,200

208

SEC

DATE

TRANSFORMER EQUIP. TYPE

IMPEDENCE 5.14% PHASE/CYCLE 3/60

LIQUID TYPE ASKAREL **GAL LIQUID** 140 ADDITIONAL EQUIPMENT

CONSERVATOR YES NO TAP CHANGER NO

NO **BUSHING LOC** SIDE ENCLOSED RECLAIMER

240/40

NO

TOP FPV POWER V/A 1.00 INCH BOTTOM FPV OTHER ACCESS 1.00 INCH

NO

VISUAL INSPECTION

PAINT CONDITION 6000

SERVICE

LEVEL

LEAKS NONE

1242 DATE OF SERVICE AROCLOR \*

1254 AROCLOR

1260 TOTAL AROCLOR CONTENT

FIELD SERVICE

COLOR LABEL

RADIATORS

H20 COOLED

OIL PUMPS

FANS

LIQUID SCREEN TEST DATA

IFT

TEMP 8/22/83 NORHAL 62 C 0.0 .010 AC N/A 1/05/85 NORHAL 38 C .030 AC 0.5 N/A

P/V

ACID

DIEL 37 AC

-COLOR PALE YELD AC

PALE YELD AC

SP. GR. 1.500 AC 1.500

VISUAL CLEAR AC CLEAR AC

SEDIMENT NONE

AC NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

CARBON ---CARBON TOTAL TOTAL-SERVICE HYDROGEN OXYGEN NITROGEN METHANE MONOXIDE DIOXIDE ETHANE ETHYLENE ACETYLENE COMBUSTIBLE GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 MOWRY AVENUE, SUITE A, FREMONT, CA

DC 000

ID# 1109200

CUST DEACONESS HOSPITAL

MFG ITE

0/22/22

KVA

500

TERPERATURE

PRIMARY

13,200 SUB NAME SOUTH WING ROOF

UNIT #ROOF 6TH FLOOR

S/N

20962-B01

SECONDARY

208

08

KABL-FISCHER TESTING/MOISTORE BOWTE (TAR OPRESSED IN PPA)

MOSTORE CONT. TENEPRE

PON ADSTRUCTURATION MOISTURE SETURATION

101, BT 100 ADSTRUCTURE SETURATION

ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE SERVICE ALUMINUM IRON ZINC COPPER LEAD SILVER TIN VANADIUM MOLYBEDUM CADMIUI 1/05/85 ND .090 2.060 .370 .120 ND .240 ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

LIQUID POWER FACTOR

TE SERVICE 25 C. 100 C

THE POWER FACTOR DE THE DIE AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

3890 MCWRY AVENUE, SUITE A, FREMONT, CA

CUST. DEACONESS HOSPITAL SUB. NAME SHERWOOD VAULT

300

208

13,800

CITY SPOKANE WA

**GREY UNIT** 

TRANSFORMER

OTHER

ID# 11092000

DATE PRINTED

3/05/85

NAMEPLATE DATA

MFG. ITE EQUIP. TYPE DATE MFG. TRANS CLASS S/N 20136

IMPEDENCE

UNIT#

5.00% PHASE/CYCLE 2/60 ASKAREL

LIQUID TYPE **GAL LIQUID** 117

ADDITIONAL EQUIPMENT RADIATORS

YES ND NO

ND

LOCATION

CONSERVATOR TAP CHANGER

INDOOR /GROUND

ND BUSHING LOC SIDE

סא

RECLAIMER POWER V/A

OTHER ACCESS

240/40

VISUAL INSPECTION

PAINT CONDITION

DATE

SERVICE HYDROGEN

KVA

PRI

SEC

0000

LEAKS NONE

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE

FANS

H20 COOLED

OIL PUMPS

BOTTOM FPV

TOP FPV

1242 AROCLOR

1254 AROCLOR

1.00 INCH

1.00 INCH

1260 AROCLOR

TOTAL CONTENT

**FIELD SERVICE** 

COLOR LABEL

LIQUID SCREEN TEST DATA

DATE SERVICE LEVEL TEMP P/V ACID IFT 8/22/83 NORMAL 47 C 1.0 .015 ΑC N/A 1/05/85 KORMAL 42 C 0.2 .020 A.C N/A

DIEL 23 CU

COLOR PALE YELD AC

PALE YELD AC

SP. GR. 1.540 AC

1.540 AC

VISUAL CLEAR AC

CLEAR AC

SEDIMENT

NONE NOME AC

AC.

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

The state of the s CARBON OXYGEN NITROGEN METHANE MONOXIDE

CARBON

DIOXIDE

ETHANE ETHYLENE ACETYLENE

TOTAL COMBUSTIBLE TOTAL GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 HOURY AVENUE, SUITE A, FREHONT, CA

ID# 1109200

CUST DEACONESS HOSPITAL

MFG ITE KVA

300

PRIMARY

13,800

SUB NAME SHERWOOD VAULT

UNIT # GREY UNIT

S/N 20136

the fair

SECONDARY

208

BARL PREPARE TESTING MORE TORE CONTENT EXPRESSED IN 1914. **PEB EEM** 

TEMPERATURE

MUSTURE JURY WEIGHT MOISTURE SATURATION 1 1 1 1 TECH

海、強 : 起

ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE SERVICE IRON ZINC ALUMINUM COPPER LEAD MOLYBEDUM VANADIUM CADMIUN 1/05/85 ND 090 .240 2.370 .100 010 ND .080 ND

NOTE-THE DISSOLVED HETAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

LIQUID POWER FACTOR

and would be the service of the law of the

THE POWER FACTOR OF THE DIL AT 25 AND 100 DEGREES CELSIUS 15-A VERY MEANINGFUL

TEST IN EVALUATING IN SERVICE AND SERVICE AGED TRANSFORMERS FOR MAX-LIFE RESULTS TEG IN LUNION INC. 18 SERVICE AND

A DIVISION OF S.D. MYERS INC.

3890 HOWRY AVENUE, SUITE A, FREMONT, CA 9

CUST. DEACONESS HOSPITAL SUB. NAME SHERWOOD VAULT CITY: SPOKANE WA UNIT# PROWN UNIT

OTHER

ID# 11092000 LOCATION

DATE PRINTED

3/05/85

NAMEPLATE DATA

MFG. G.E. EQUIP. TYPE DATE MFG. TRANS CLASS S/N G854025 IMPEDENCE

225

430

15,200

TRANSFORMER

100

5.21%

3/40 ASKAREL

RADIATORS FANS

H20 COOLED

BOTTOM FPV

OIL PUMPS

TOP FPV

YES NO NO

ND

CONSERVATOR Ю TAP CHANGER

NO BUSHING LOC SIDE

RECLAIMER POWER V/A

OTHER ACCESS

INDOOR /GROUND

ADDITIONAL EQUIPMENT

240/40

VISUAL INSPECTION

PAINT CONDITION COOD

KVA

PRI

SEC

LEAKS NONE

PHASE/CYCLE

LIQUID TYPE

GAL LIQUID

PCB CONTENT / EXPRESSED IN PPM

DATE OF SERVICE

1242 AROCLOR

1254 AROCLOR

1.00 INCH

1.00 INCH

1260 AROCLOR

TOTAL CONTENT

FIELD SERVICE

COLOR LABEL

LIQUID SCREEN TEST DATA

DATE SERVICE LEVEL TEMP 8/22/63 KORMAL 34 C 1/05/95 KORMAL

P/V 0.2 33 C 0.2-

ACID IFT AC .010 R/s 010. AC N/A

DIEL COLOR 2C UN WIR WHITE AS WTR WEITE AC

SP. GR. 1.500 AC 1.500 AC

VISUAL CLEAR AC CLEAR AC

SEDIMENT NOKE

NONE

ac

AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE OXYGEN NITROGEN METHANE SERVICE HYDROGEN

CARBON MONOXIDE CARBON DIOXIDE

ETHANE ETHYLENE ACETYLENE COMBUSTIBLE

TOTAL

TOTAL GAS

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

3890 HOJRY AVENUE, SUITE A, FREHONT, CA 9

JC 000

CUST DEACONESS HOSPITAL

G854825

MFG G.E.

S/N

KVA

225

PRIMARY SECONDARY 13,200 480 SUB NAME SHERWOOD VAULT

UNIT # BROWN UNIT

FARL FISCHER TESTING/MIDISTURE CONTENT/EXPRESSED IN PPM

MINISTRE FROM THE CENT

MINISTRE FROM THE CEN

ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE	SERVICE	ALUMINUM	IRON		ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBEDUM	CADMIUM
1/05/85		ND	.010	14	ND	KD	.170	. 050		ND	.110	ND

NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED NETALS. THIS DATA SERVES AS A BASELINE UPON WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST 1 YEAR.

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그는 하는 하는 이 사람들은 그 사람들이 가는 사람들이 가장 사람들이 되었다. 그렇게 하는 하는 하는 하는 사람들이 되었다. 그렇게 하는 사람들이 되었다. 하는 사람들이 가장 사람들이 가장 하는 사람들이 가장 사람들이 되었다면 가장 사람들이 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면
THE RESIDENCE OF THE PROPERTY
the frequency of the control of the
LIQUID POWER FACTOR
DATE SERVICE 25 C 100 C
The state of the s
THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL
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The district of the property of the control of the
開発に対象的に対象を通信する。 現実には、大きなないでは、大きなないでは、大きなないでは、ないでは、ないでは、ないでは、ないでは、ないでは、ないでは、ないでは
TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

## 1984 PCB Annual Report Deaconess Medical Center W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dieleutric fluid of each transformer. The last fluid test was performed on 08/22/83. See attached related documents.

#### Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

#### Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

#### Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

#### Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

#### Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne Safety Manager \$\dispers | Consultant | Sandiv S.D. Myers Incappo | 4724\dispers | A724\dispers ◆SUB NAME— CHILLER BLDG2 To a COUNT # ・ PMWFR AMIT A TO A TO # 000万字 

-- NAMEPLATE DATA --

LOCATION INDOOR MFG ITES RADIATORS YES FANS ND. - 5 --GROUND TOP FPY 1-00' IN H20 COOLED NO OIL PUMPS BOTTOM FPV 1.00 IN

2 FLOOR

SEC 480 TRANS CLASS OTHER ACCS 3/60 P/H CONSERVATOR NO RECLAIMER

GAL 315 TAP CHANGER NO POWER V/A 240/40 LIO ASKAREL BUSHING LOC SIDE DATE MFG

EQUIP TYPE TRANSFORMER IMP

<del>\*</del>

--≑VISUAL INSPECTION≑--

LEVEL-NORMAL PRESSURE/VACUUM- .25 LEAKS-NONE

PAINT CONDITION-GOOD SRVC-TEMP- 49 C

SNF 20982-A01

13200

KVA 2000

PRI

--- PCB CONTENT/EXPRESSED IN PPMP--

ARDCHLOR 1242 CATE TOTAL PPM CLASS-AROCHLOR 1254 OTHER-

AROCHLOR 1260 COLOR LABEL-

DATE NOTES/COMMENTS ON LIG TESTING 8/22/83 N/N MG KOH/GS 0.010 AC

IFT DYNES/CM N/A KF AND/OR DIELECTRIC TEST DIEL D877 KV INDICATES THE PRESENCE OF 41.0 AC

DIEL DIB16 KV MDISTURE. RECOMMENDATION -

P/Y AC ELECTRICAL TESTING

SP GRAVITY 1.500 AC CLR AC VISUAL

CODE AC-ACCEPTABLE QU-QUESTIONABLE

> UN-UNACCEPTABLE OT-OTHER

NONE AC

-----GAS-IN-DIL ANALYSIS/GAS CHRDMATDGRAPHY/EXPRESSED IN PPM≎--

DATE NOTES/COMMENTS ON GC TESTING

KITROGEN

METHANE

HYDROGEN DXYGEN

SEDIMENT

CRBN MONOXIDE

CRBN DICXIDE

ETHANE

ETHYLENE

ACETYLENE

TOTAL COMBUST TOTAL GAS

COMMENT

```
IRON FEED
 ZINC ZNI
 COPR CU
 LEAD PB
 SLVR AG
 TIN SN
 MOLY MO
 VANA V
 CADM CD
*******

         --- CARL FISCHER TESTING ---
DATE
               8/22/83
                 87.27
⇔ KF PPM
# % MOIST/DRY WT
                  60+
⇒ % SATURATION
                   UN

⇒ CLASSIFICATION

**********
    DATE/CODE
          DATE/CODE
                  TYNDLE
⇔ GPC
⇒ PF25 C
                  PART CNT
⇒ PF100 C
                  CRBN TYP
                  CRSU SUL
ANILINE
                   INDR C/S
⇔ REF INDX
                  SLDG CNT
 INFR RED
                  DBPC CNT
 CLOUD PT
                  API SGRV
 FLASH PT
 FIRE PT
                  RESTVITY
⇒ PCUR PT
⇒ osc
<del>&&&&&&&&</del>
     --+TRANSFORMER NOTES/CLASSIFICATION*--
```

さいながり でもせ

RADIATORS YES LOCATION INDOOR MFG ITETSARS FANS NO. - GROUND 2 FLOOR SN 20982-D01 TOP FPV KVA .... 500 H20 CDOLED NO 1.00 IN ... PRI .- 13200 DIL PUMPS NO BOTTOM FPV 1.00 IN SEC 208 TRANS CLASS OTHER ACCS

RECLAIMER TAP CHANGER NO POWER V/A 240/40 GAL 218 BUSHING LOC SIDE DATE MFG

CONSERVATOR NO

LIG ASKAREL EQUIP TYPE TRANSFORMER IMP 5.44%

LEVEL-HIGH PRESSURE/VACUUM-LEAKS-NONE TEMP- 76 C PAINT CONDITION-GOOD SRVC-

<del>^</del>

--- PCB CONTENT/EXPRESSED IN PPM ---

AROCHLOR 1242 DATE-TOTAL PPM CLASS-AROCHLOR 1254 CTHER-

COLOR LABEL-AROCHLOR 1260

-- TRANSFORMER LIQUID TEST DATA --

8/22/83 NOTES/COMMENTS ON LIQ TESTING DATE N/N MG KOH/GS 0.010 AC

IFT DYNES/CM KF AND/OR DIELECTRIC TEST N/A

INDICATES THE PRESENCE OF DIEL D877 KV 43.0 AC DIEL D1816 KV MOISTURE. RECOMMENDATION -

P/Y AC ELECTRICAL TESTING COLOR

1.550 AC SP GRAVITY

VISUAL CLR AC

AC-ACCEPTABLE QU-QUESTIONABLE CODE

NONE AC

UN-UNACCEPTABLE OT-OTHER

DATE ... NOTES/COMMENTS ON GC TESTING

HYDROGEN DXYGEN

NITROGEN

SEDIMENT

METHANE

CRBN MONOXIDE

CRBN DIOXIDE

ETHANE

P/H

3/60

· ETHYLENE

ACETYLENE

TOTAL COMBUST TOTAL GAS

COMMENT

```
FICP TESTING/METALS-IN-GIL/EXPRESSED IN PPM#
 ALUM AL
 IRON FE
 LEAD PB
 SLVR AG
 TIN SN
 MOLY MO
 VANA V
 CADM CD
                                           11:1
******
          -- +KARL FISCHER TESTING+--
                8/22/83
DATE
KF PPM
                  96.83
 % MGIST/DRY WT
                   60+
2 SATURATION
> CLASSIFICATION
                    UN
}<del>$$$$$$$$$$$$$$$$$$$$$$$$</del>
    DATE/CODE
          DATE/CDDE
                   TYNDLE
⇒ GPC
                                             )
                   PART CNT

⇒ PF25 C
                   CRBN TYP
⇒ PF100 C
                   CRSU SUL
⇒ ANILINE
                   INOR C/S
⇒ REF INDX
                   SLDG CNT
⇒ INFR RED
                   DBPC CNT
                                             . 7
⇒ CLOUD PT
                   API SGRV
⇒ FLASH PT
                                            1111
                   RESTVITY
⇒ FIRE PT
                   VISCSITY
⇒ POUR PT
 OSC
                                             )
********
     --

TRANSFORMER NOTES/CLASSIFICATION

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## ###TRANSFORMER CONSULTANTS##DIV S.D. MYERS INC##PO BOX 4724##AKRON OHIO 44310### S ≠CUST- DEACONESS HOSPITAL ) ID#- 11092000 LOC- SPOKANE WA \$SUB: NAME- SOUTH WING ROOF - UNIT#- ROOF 6TH FLOOR - TC#- 0003 S-IT IN THE --- PNAMEPLATE DATA---MFG-ITERATE 1 LOCATION - INDOOR RADIATORS YES SN 20982-801 FANS . NO -GROUND KVA2- - 500 H20 COOLED NO TOP FPV 1.00 IN PRI 13200 DIL PUMPS NO BOTTOM FPV 1.00 IN .. SEC 208 TRANS CLASS OTHER ACCS P/H 3/60 CONSERVATOR NO RECLAIMER GAL 140 TAP CHANGER NO POWER V/A 240/40 BUSHING LOC SIDE ENCLOSED DATE MFG LIQ ASKAREL IMP 5.14% EQUIP TYPE TRANSFORMER \* -- VISUAL INSPECTION ---LEVEL-NORMAL PRESSURE/VACUUM-0 LEAKS-NONE TEMP- 62 C PAINT CONDITION-GOOD SRVC-\* -- PCB CONTENT/EXPRESSED IN PPM --DATE-ARDCHLOR 1242 TOTAL PPM CLASS-AROCHLOR 1254 OTHER-COLOR LABEL-AROCHLOR 1260 \* -- TRANSFORMER LIQUID TEST DATA --DATE 8/22/83 NOTES/COMMENTS ON LIG TESTING : N/N MG KDH/GS 0.010 AC IFT DYNES/CM N/A KF AND/OR DIELECTRIC TEST DIEL D877 KV 37.0 AC INDICATES THE PRESENCE OF DIEL D1816 KV MOISTURE. RECOMMENDATION -COLOR P/Y AC ELECTRICAL TESTING SP GRAVITY . 1.500 AC VISUAL CLR AC NONE AC SEDIMENT OU-OUESTIONABLE CODE AC-ACCEPTABLE UN-UNACCEPTABLE OT-OTHER --≑GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM≑--CATE NOTES/COMMENTS ON GC TESTING HYDROGEN OXYGEN NITROGEN METHANE CRBN MONOXIDE CRBN DIOXIDE ETHANE ETHYLENE ACETYLENE TOTAL COMBUST TOTAL GAS

COMMERT

```
ALUM AL
 IRON FET
 ZINC ZN.
 COPR CU
 LEAD PB
 SLVR AG
 TIN
 MOLY MO
 VANA V
 CADM CD
                                                  Э.
***********
           -- #KARL FISCHER TESTING --
DATE
                  8/22/83
≈ KF PPM
                   106.23
* % MOIST/DRY WT
 % SATURATION
                     60+

⇒ CLASSIFICATION

                      UN
**********
     --- DN-LINE TRANSFORMER TESTING/OLIT.TM---
::
           DATE/CODE
                                DA TE/CODE
                                                  )
⇔ GPC
                     TYNDLE
                     PART CNT

PF25 C
⇒ PF100 C
                     CRBN TYP
⇒ ANILINE
                     CRSU SUL
                     INOR C/S
⇒ REF INDX
                     SLDG CNT

    INFR RED

                     DBPC CNT
 CLOUD PT
≠ FLASH PT
                     API SGRV
                     RESTVITY
 FIRE PT
⇒ POUR PT
                     VISCSITY
 DSC

٠
***************
      --+TRANSFORMER NOTES/CLASSIFICATION---
```

*CUST- DEACONES:	RWOOD VAULT	OC- SPOKANE WA NIT#- GREY UN *********	IT. C.		
1274 CZ		MEPLATE DATA≎-		- Section 100 AG	
MFG ITE	RADIATORS	YES	LOCATION INDO	DR A FLANCE COLC ←	. 1
SN 20136	FANS	NO	GROUI		
KVA" 300	H20 COOLED	NO	TOP FPV 1.00		
PRI 27 13800	OIL PUMPS	NO	BOTTOM FPV 1.00		1
SEC: 208	TRANS CLASS	+	OTHER ACCS		
P/H - 3/60	CONSERVATOR	NO	RECLAIMER	*	,
GAL 117	TAP CHANGER	THE MAN IN ALL OF THE STATE OF	POWER V/A 240/4	· · · · · · · · · · · ·	. '
LIO ASKAREL	BUSHING LCC	-	DATE MEG		
IMP 5.00%		TRANSFORMER	<del>-</del>	Ĩ	
- 1 4 - 1			•••	~ *	`
*****	****	*****		~	
A STATE OF THE STA		AL INSPECTION#	•	*	
			** -2	÷	
LEVEL-NORMAL	PRESSURE/VACUUM-	1-00 LEAKS-NO	NE	·	
TEMP- 47 C			NE.	~	
- VE 47 C		000 3KVC-		÷	ಘನ
	****	. يولي براي براي براي ماي وياي وياي الله ماي ماي ماي وياي وياي وياي وياي وياي		•	
E. C. C. C.		NT/EXPRESSED I			
4		NIVEXPRESSED I	M bhwa		τ
DATE-			=== ==		ķ
CLASS-		DR 1242	TOTAL PPM		2
		OR 1254	OTHER-		2
COLOR LABEL-	ARUCHL	DR 1260			C
				_	<b>\$</b> \$
*********	***********				
24	=TRANSFORM	ER LICUIC TEST	DATA*	*	
			**	·	ζ
DATE			NOTES/COMMENTS O	N LIG TESTING \$	F
N/N MG KOH/GS					F
	NZA		KF AND/GR DIELEC		
	28.0 QU		INDICATES THE PE		F
DIEL DIBIG KY			MOISTURE. RECOM		1
COLOR	P/Y AC		ELECTRICAL TEST	NG ≎	C
SP GRAVITY	1.540 AC			÷	F
VISUAL	CLR AC	19		<b>÷</b>	F
_ SEDIMENT	NONE AC			<b>*</b>	F
,				<b>\$</b>	C
				\$	
	PTABLE OU-QUEST	IONABLE		<b>*</b>	
	CEPTABLE OT-OTHER			*	
	******				
	S-IN-DIL ANALYSIS/GA	S CHROMATOGRAPI	HY/EXPRESSED IN F	PM\$ \$	<b>*</b> *
5.0					
DATE			NOTES/COMMENTS C	N GC TESTING \$	
HYDROGEN : 150	1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	- A		20 v.o. a 10 <b>‡</b> .	
OXYGEN				÷	
NITROGEN				- +	
METHANE 5				<b>\$</b>	
CRBN MONOXIDE	. 4		6	÷	
CRON DIOXIDE			- 74	<b>*</b>	
ETHANE			Sec. 19	*	
ETHYLENE				*	
ACETYLENE				*	
	7.50			<b>*</b>	
TOTAL COMBUST	*/			Ţ.	
TOTAL COMBUST			•	<b>₽</b>	
TOTAL GAS				<b>∓</b>	
COMMENT				<b>*</b>	
COMMENT				÷	
			•	•	

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DATE TENTENT TO THE TENTENT OF THE PARTY OF 
ALUM AL
IRON FE
ZINC ZN
COPR CU
LEAD PB
SLVR AG
FIN SN
MOLY MO
> VANA V
CADM CD
************
                                           -- #KARL FISCHER TESTING---
7
                                                                         8/22/83
DATE
                                                                             107.00
> KF PPM
* % MCIST/DRY WT
                                                                                       60+
≈ % SATURATION
CLASSIFICATION
                                                                                          UN
**********
                    ---

ON-LINE TRANSFORMER TESTING/OLTT.TM

---
                                                                                                                                  DATE/CODE
$
                                             DATE/CODE
                                                                                        TYNDLE
⇔ GPC
                                                                                       PART CNT
⇒ PF25 C
                                                                                        CRBN TYP
# PF100 C
                                                                                        CRSU SUL

□ ANILINE

                                                                                        INDR C/S
⇒ REF INDX
                                                                                        SLDG CNT

    INFR RED

                                                                                       DBPC CNT
⇒ CLOUD PT
                                                                                                                                                                                                           C
                                                                                        API SGRV

⇒ FLASH PT

* FIRE PT
                                                                                       RESTVITY
                                                                                        VISCSITY

    POUR PT.
≎ OSC
*
**********
                        --*TRANSFORMER NOTES/CLASSIFICATION*--
                                                                                                                                                                                                            J
                                                                                                                                                                                                      1111
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CUST- DEACONESS HO	SPITAL LOC- SPOKANE	
SUB NAME SHERWOO	D' VAULT UNIT#- BROWN	N UNIT
ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT		00 00 00 00 00 00 00 00 00 00 00 00 00
MFG G.E.	RADIATORS YES	LOCATION INDOOR
SN G854825	FANS NO	GROUND
KVASAFL 225	H2D COOLED NO	TOP FPV 1.00 IN \$
PRI: 13200	OIL PUMPS NO	BOTTOM FPV 1.00 IN
SEC 480	TRANS CLASS	OTHER ACCS
P/H 3/60	CONSERVATOR NO.	RECLAIMER
GAL 100	TAP CHANGER NO	POWER V/A 240/40
LIO ASKAREL	BUSHING LOC SIDE	
IMP 5.21%	EQUIP TYPE TRANSFORMER	
100	t to the terminal disease.	* ME
***********		********
The state of the s	=VISUAL INSPECTION	DN≑ <del></del>
LEVEL-NORMAL P	PRESSURE/VACUUM25 LEAKS-	· NONE
	PAINT CONDITION-GOOD SRVC-	
		r began e jê a e er.
*****		*******
	*PCB CONTENT/EXPRESSED	D IN PPM≑
DATE-	AROCHLOR 1242	TOTAL PPM ≎
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	
	The state of the s	, · · · · · · · · · · · · · · · · · · ·
*******		*****
13:	TRANSFORMER LIQUID TE	EST DATA* *
		•
	/22/83	NOTES/COMMENTS ON LIG TESTING \$
N/N MG KOH/GS 0.0		
IFT DYNES/CM N		KF AND/OR DIELECTRIC TEST *
	אט 0•0	INDICATES THE PRESENCE OF \$
DIEL D1816 KV		MOISTURE. RECOMMENDATION - ≎
	WW AC	ELECTRICAL TESTING \$
	500 AC	*
	R AC	
SEDIMENT NO	INE AC	€ 6 🐣 🕏
		<sup>30</sup> • • • • • • • • • • • • • • • • • • •
	- t :	;; ÷
CODE AC-ACCEPTA	BLE. OU-QUESTIONABLE	er en generale juit bis 🗢
UN-UNACCEP		*
		*********
GAS-IN	H-OIL ANALYSIS/GAS CHROMATOGE	
CATE		NOTES/COMMENTS ON GC TESTING ⇒
HYDROGEN	•	to test the second section of the second section secti
DXYGEN	8	
NITROGEN.		_ R 0
METHANE		· ar
CRBN MONOXIDE	2	•
CRBN MUNUXIDE		€
		*
ETHANE		
ETHYLENE		** E
ACETYLENE		<i>₽</i>
TOTAL COMPLICE		
TOTAL COMBUST		*
TETAL GAS		÷
CONNELT		•
COMMENT		

```
ALUM AL
 IRON FE
 ZINC ZN Comments
 LEAD PB
 SLVR AG
 TIN: SN
 MOLY MO
 VANA V
 CADM CD
**********
         --*KARL FISCHER TESTING*--
               8/22/83
DATE:
                 90.13
 KE PPM
 % MOIST/DRY WT
                  60+
 % SATURATION
                   UN
 CLASSIFICATION
***********
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DN-LINE TRANSFORMER TESTING/OLTT.TM#--
                           DATE/CODE
         DATE/CODE
÷
                  TYNDLE
⇔ GPC
                  PART CNT
CRBN TYP
⇒ PF100 C
                  CRSU SUL
⇔ ANILINE
                  INOR C/S .
 REF INDX
                  SLDG CNT
 INFR RED -
                  DBPC CNT
 CLBUD PT
                  API SGRY
 FLASH PT
                  RESTVITY
 FIRE PT
                  VISCSITY
 POUR PT
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TRANSFORMER NOTES/CLASSIFICATION

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                                           >
                                          111
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· South wing not · HE 20982 - BOI SUOKUA gone 13,200, 208/120 140 gol Askanel

· SHIR WOOD Vanet 1TE 20136 300 KVA 13800 , 2089/120 117 gol Askanel

SHIR WOOD Vanet

SE 6854825 225 KVA

13,200,4807/277

100 gal Askael

ARS 79, 83, 85, 86

NO GUARTERUY NERRYS -

Annual responds

CHARLES THURSTON Sales Technician

Spane r

### TRANSFORMER CONSULTANTS



DIV. OF S.D. MYERS SUITE 10
26062 EDEN LANDING ROAD
HAYWARD, CALIF. 94545
PHONE 783-7744
In Calif. Toll Free • 800-972-5940
Outside Calif. Toll Free • 800-227-0637

ACTS 4:12



ywood, California and Houston, Texas

Div. S.D. Myers, Inc. P.O. Box 3575 Akron, Ohio 44310 (216) 929-2847

Pink - Environmental Services Dept.

CUSTOMER _A_	CONESS MO	MTL Unit #84	
CITY SPOKE	725	STATE WA	OTHER
4 7.			
	LIQUI	D PCB'S REMOVED FOR T	ESTING
TOTAL SAMPLES	<u>5</u>	300 GRAMSE	ACH /. S KILOGRAMS
( Samples X weight	in grams ÷ 100	gravity (average) = Grams  0 = Kilograms)  een removed from service	*: 
			se of disposal in accordance with the
THE PUBLICATION OF THE	*		17th, 1978, Subpart B, Section 761.10
	, Rules and Re	guiations rait v, reoldary	,,,,,







S. D. MYERS, INCORPORATED

P. O. BOX 3575 . AKRON, OHIO 44310 TELEPHONE 216/929-2847

Page\_\_\_/\_

#### TRANSFORMER OIL TEST RECAP SHEET

CUSTOMER DUACON	USS HOSPITAL	STATE_	SUP	DATE 12 /2 7
MTL 84	OP	TOTAL UNITS_	5	TESTED PT

								ASKARELS	
тс	GOOD	PROP A	MARGINAL	BAD	VERY BAD	EXTL BAD	ČLASS 7	GOOD	BAD
1								315	
2								715	
3		8						140	
И								117	
5				W			4	100	
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#### TRANSFORDER CONSULTANTS

Div. of S. D. MYERS, INC. 3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

FIELD COPY/REPORT OF TRANSFORMER SURVEY

Customer DEACONESS MOSPITAL Mobile Test Laboratory No. \_\_ Date 12 /7 79 LOCATION OF TRANSFORMER [7-Indoor Outdoor ☐ Roof F Ground Platform ft.\_\_\_ —□ Pole Unit Or Tag Number \_ REPORT OF TRANSFORMER LIQUID ANALYSIS Acid Number Interfacial Tension Dielectric Color Specific Visual CLASSIFICATION RECOMMENDATION DYNES/cm (Oil) mg/KOH/g ASTM Number Gravity Conditions 600D 0.015 152 2 NAMEPLATE INFORMATION 13 200 176 Manufacturer \_\_ Primary Volts\_ 70982-A01 Serial Number\_ Secondary Volts -Impedence KVA Rating \_ Phase/Cycle. Other. ADDITIONAL EQUIPMENT Radiators Yes No Conservator Tank Yes No Top Valve Fans \_\_\_\_\_ Tes Proposition Proposition Fans \_\_\_\_\_ Yes No Bottom Valve\_ Temperature . Bushings: 
Top Side Pressure/Vacuum \_\_\_\_\_\_ \_ H₂O Cooled ☐ Yes 🕒 No Other Access\_ VISUAL INSPECTION Cleanliness [ Good \_ Gaskets A OK \_\_\_\_\_ Paint Bushings A OK \_\_\_\_\_ ☐ Good ☐ Fair Bad Leaks None. Other. NOTES - COMMENTS SERVICING INFORMATION - FOR S. D. MYERS, INC. USE ONLY Re re Parking D Bad □ Good Remarks. Re re Hose □ Good □ Bad \_\_Remarks . Distance. 3 Power □No Remarks. ☐ Yes □ Yes Energized Remarks.



#### TRANSFORDER CONSULTANTS

Div. of S. D. MYERS, INC. 3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

FORM #3	101 Test Labor	atory No.	34	FIE Customer	LD COPY	/REPORT	OF TRANSFO	RMER SURVEY		
Analyst	CT	-	Date 12 /7	79 City	SPORAN	J.C.	State U	IA :		
			LC	DCATION OF	TRANSFO	RMER Indoor	☐ Outdoor ☐ Platform ft	TC # Z □ Roof		
Unit C	or Tag Nur	mber		AND RESERVED THE RESERVED AND ADDRESS OF THE RESERVED AND ADDRESS OF THE RESERVED AND ADDRESS OF THE RESERVED	or Professional State of the Control	tent out in the state	Published Landson B. Disson			
	REPORT OF TRANSFORMER LIQUID ANALYSIS									
1000 P	Dielectric	Acid Numbe	引导。25年最高的人特殊的	S THE SHARE SERVICE AND A SHARE OF	Specific	Visual	CLASSIFICATION	RECOMMENDATION		
	KV.	mg/KOH/g	- 2 - 7 /3 - 2-9 (Mark	ASTM Number		Conditions	6000			
7.1 p	33	0.05	W/A	P.Y.	1.52		666.			
2	Arris Mari					The second party and a selection of	A Participation of the	CONTROL TO A CONTROL OF THE CONTROL		
NAMEPLATE INFORMATION   Name							Oil Askarel 			
Tempe	rature	<i>6</i> 2	_ Fans [	Yes 🗖 No	Tap Changer	Comp. 🗌 Yes	ÉNo Top Valve ÉNo Bottom Val e Other Acce	ve		
				VISUAL IN	SPECTION					
Cleanl Paint Leaks	E	Good	☐ Fair	B	ad Bushir	ets				
		73 36 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NOTES — (	OMMENT	S	50	5		
		SER\	ICING INFO	RMATION - F	OR S. D. /	MYERS, INC.	USE ONLY			
Re re	Parking		□Bad Ren	narks						
Re re	Hose	□ Good	□Bad Dist	ance 205	Rema	rks				
3 <b>¢</b> Po	wer	☐ Yes	□No Ren	narks						
Energ	jized	☐ Yes	□No Ren	narks						



3 Power

Energized

☐ Yes

☐ Yes

DNo

Remarks.

Remarks.

## TRANSFORMER CONSULTANTS

Div. of S. D. MYERS, INC. 3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

Marys	CT		Date 12 17	City	PORAN		State_W	Α
	ation Name o			OCATION OF		RMER Hindoor Ground	☐ Outdoor ☐ Platform ft.	TC # 3 ☐ Roof — ☐ Pole
27704			REPORT	OF TRANSFOR	MER LIQUID	ANALYSIS	ave games and a	
1 2	Dielectric KV	Acid Number mg/KOH/g  0.015	DYNES/cm (OII)	Color ASTM Number	Specific Gravity /- 52	Visual Conditions C.C.	CLASSIFICATION  GOOD	RECOMMENDATION
3						1		
Serial KVA Liquid Tempe	Rating	10982- 500 L	Radiators Fans	Yes No	208/ 3/60 EQUIPME Conservator 1	NT	Impedence	)" ve
Clean Paint Leaks	 	Good Good None	☐ Fair	VISUAL IN	Gaske	gs 🖆 OK		
	3 3	3 4		NOTES - C	OMMENTS		<u>6</u> .	.25-



Energized

☐ Yes

□No

Remarks.

#### TRANSFORCER CONSULTANTS

Div. of S. D. MYERS, INC. 447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

	** (C)						CALIFORNIA 94545
ORM #3-101		84					RMER SURVEY
nalyst	coratory No	Date 12 17 7	Customer .	SPOKA	155 NO	State_W	A
narysi			CATION OF				TC # 4
Substation Na	ame or Number <u></u>				Indoor	☐ Outdoor	
				<u> </u>	Ground	☐ Platform ft	Pole
Unit Or Tag	Number						
	A del Mineral	A STATE OF THE STA	OF TRANSFOR	Specific	Visual	CLASSIFICATION	RECOMMENDATION
Dielec	21001	7	ASTM Number	Gravity	Conditions	System of each road	
1 36			PY	1.54	CL	600D	
2		. And the	· Fare			, ye .	
3		AWARA CAR	1964857428		44 - AL - 20		Second Section 1
Serial Number	SL //	Radiators Fans  H <sub>2</sub> O Cooled [	Secondary Volts Phase/Cycle  ADDITIONA Yes  No Yes  No Yes  No Yes  No Yes  No	7 0 8 7 7 3 16 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ENT  Tank   Yes   Yes	e Other Acce	ve /
	5737 537		NOTES -	COMMENT	S	9.	.55
	SERV	ICING INFOR	MATION -	FOR S. D.	MYERS, INC.	USE ONLY	
Re re Parking	, VI		arks75				
Re re Hose	(fee)	□Bad Dista		Rema	arks		
3 ∳Power	☐ Yes	□No Rem	arks				



FORM #3-101 &U

# TRANSFORCER CONSULTANTS

Div. of S. D. MYERS, INC. 3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

FIELD COPY REPORT OF TRANSFORMER SURVEY

Analyst	1_6T		Date 12 17 ?	9 City_5	COKANE		State W	A	
		or Number	541R NOOD		<u> </u>	Indoor Ground	☐ Outdoor ☐ Platform ft		
REPORT OF TRANSFORMER LIQUID ANALYSIS									
	Dielectric	Acid Numbe	r Interfacial Tension	Color	Specific	Visual	CLASSIFICATION	RECOMMENDATION	
	κv	mg/KOH/g	DYNES/cm (Oil)	ASTM Number	Gravity	Conditions	- 10 14 - 14 14 14 14 14 14 14 14 14 14 14 14 14		
1	36	0.02	N/A	WW	1.52	CL	6000		
2			w, d i he					o tel I fares	
3		E TARRE		Marine Com	generalis.	A CONTRACT	Carry Carry		
Manu Serial KVA	NAMEPLATE INFORMATION           Manufacturer         6E         Primary Volts         13.250         Gal.         Oil           Serial Number         654325         Secondary Volts         4707/277         Impedence         527           KVA Rating         225         Phase/Cycle         3/66         Other								
Pressu	eratureure/Vacuum		Fans [	Yes PNo Yes No VISUAL IN	Tap Changer Bushings: [  ISPECTION	Comp. ☐ Yes ☐ Top		ve_/	
		Good				ts			
Paint		Good	☐ Fair		Other	gs 🖺 OK			
		35° 3° 33		NOTES —			6.0 2 	25	
		SERV	ICING INFOR	MATION - F	OR S. D. N	YERS, INC.	USE ONLY		
Re re	Parking			arks		_			
Re re	e Hose	□ Good	□Bad Dista	nce 75	Remar	ks			
3 <b>¢</b> P	ower	☐ Yes	□No Rem	arks					
Ener	gized	☐ Yes	□No Rem	arks					
100000	A CONTRACTOR OF THE PERSON NAMED IN		No. of States		The second second second				